

Solar System Physics - DTU Orbit (07/08/2016)

Solar System Physics

National Space Institute

Taken over by Astrophysics and Atmospheric Physics

Organisational unit: Section

Publications:

Cosmic rays, clouds and climate

Svensmark, H. 2015 In : Europhysics News. 46, 2, p. 26-29

Publication: Research › Journal article – Annual report year: 2015

Den magnetiske misvisning i Danmark, Grønland og Færøerne 2015: Geomagnetisme og misvisningskort for Danmark

Finlay, C. & Olsen, N. 2015 *Københavns Universitets Almanak 2015*. Københavns Universitet, p. 79-80

Publication: Research - peer-review › Book chapter – Annual report year: 2015

The Solar and Southern Oscillation Components in the Satellite Altimetry Data

Howard, D., Shaviv, N. J. & Svensmark, H. 2015 In : Journal of Geophysical Research: Space Physics. 120, p. 3297-3306

Publication: Research - peer-review › Journal article – Annual report year: 2015

An Equivalent Source Method for Modelling the Global Lithospheric Magnetic Field

Kother, L. K., Hammer, M. D., Finlay, C. & Olsen, N. 2014

Publication: Research - peer-review › Poster – Annual report year: 2014

Den magnetiske misvisning i Danmark, Grønland og Færøerne: Geomagnetisme og misvisningskort for Danmark

Finlay, C., Matzka, J. & Olsen, N. 2014 *Københavns Universitets Almanak 2014*. Københavns Universitet, p. 79-80

Publication: Research - peer-review › Book chapter – Annual report year: 2015

First observations of transient luminous events in Indian sub-continent

Singh, R., Maurya, A. K., Veenadhari, B., Gokani, S. A., Selvakumaran, R., Cohen, M. B., Chanrion, O. A. & Neubert, T. 2014 In : Current Science. 107, 7, p. 1107-1108 2 p.

Publication: Research - peer-review › Journal article – Annual report year: 2014

Relativistic Electrons in Electric Discharges

Cinar, D., Neubert, T. & Chanrion, O. A. 2014 Kgs. Lyngby: DTU Space. 107 p.

Publication: Research › Ph.D. thesis – Annual report year: 2014

Runaway electrons from a 'beam-bulk' model of streamer: application to TGFs

Chanrion, O. A., Bonaventura, Z., Cinar, D., Bourdon, A. & Neubert, T. 2014 In : Environmental Research Letters. 9, 5, 10 p., 055003

Publication: Research - peer-review › Journal article – Annual report year: 2014

Atommodellen 100 år

Pedersen, J. O. P. 2013 In : Kvant. 24, 3, september, p. 34 1 p.

Publication: Communication › Literature review – Annual report year: 2013

Dansk fysiker frem af glemselen

Pedersen, J. O. P. 2013 In : Kvant. 24, 3, september, p. 34 1 p.

Publication: Communication › Literature review – Annual report year: 2013

Den magnetiske misvisning i Danmark og Grønland

Finlay, C., Matzka, J. & Olsen, N. 2013 *Københavns Universitets Almanak 2013*. Københavns Universitet, p. 85-86

Publication: Research › Book chapter – Annual report year: 2013

Det hele er forbundet: Klodens kredsløb 5

Pedersen, J. O. P. 2013 1, 30, 26. juli, Weekendavisen

Publication: Communication › Newspaper article – Annual report year: 2013

Døende stjerner

Pedersen, J. O. P. 2013 27.12.2013, Weekendavisen

Publication: Communication › Newspaper article – Annual report year: 2014

En afgørende skævhed: Klodens kredsløb 3

Pedersen, J. O. P. 2013 1, 28, 12. juli, Weekendavisen

Publication: Communication › Newspaper article – Annual report year: 2013

Experimental studies of the formation of cluster ions formed by corona discharge in an atmosphere containing SO₂, NH₃, and H₂O

Hvelplund, P., Pedersen, J. O. P., Støchkel, K., Enghoff, M. A. B. & Kurtén, T. 2013 In : International Journal of Mass Spectrometry. 341-342, p. 1-6

Publication: Research - peer-review › Journal article – Annual report year: 2013

Gamma-Light: High-Energy Astrophysics above 10 MeV

Morselli, A., Argan, A., Barbiellini, G., Bonvicini, W., Bulgarelli, A., Cardillo, M., Chen, A. C. N., Coppi, P., Di Giorgio, A. M., Donnarumma, I., Del Monte, E., Fioretti, V., Galli, M., Giusti, M., Ferrari, A., Fuschino, F., Giommi, P., Giuliani, A., Labanti, C., Lipari, P., Longo, F., Marisaldi, M., Molinari, S., Muñoz, C., Neubert, T., Orleński, P., Paredes, J. M., Pérez-García, M. Á. M. Á., Piano, G., Picozza, P., Pilia, M., Pittori, C., Pucella, G., Sabatini, S., Striani, E., Tavani, M., Trois, A., Vacchi, A., Vercellone, S., Verrecchia, F., Vittorini, V., Zdziarski, A. & Ivan De Mitri, N. G. G. M. A. S. 2013 In : Nuclear Physics, Section B, Proceedings Supplements. 239-240, p. 193-198

Publication: Research - peer-review › Conference article – Annual report year: 2013

Historical and idealized climate model experiments: an intercomparison of Earth system models of intermediate complexity

Eby, M., Weaver, A. J., Alexander, K., Zickfeld, K., Abe-Ouchi, A., Cimatoribus, A. A., Crespin, E., Drijfhout, S. S., Edwards, N. R., Eliseev, A. V., Feulner, G., Fichet, T., Forest, C. E., Goosse, H., Holden, P. B., Joos, F., Kawamiya, M., Kicklighter, D., Kienert, H., Matsumoto, K., Mokhov, I. I., Monier, E., Olsen, S. M., Pedersen, J. O. P., Perrette, M., Philippon-Berthier, G., Ridgwell, A., Schlosser, A., Deimling, T. S. V., Shaffer, G., Smith, R. S., Spahni, R., Sokolov, A. P., Steinacher, M., Tachiiri, K., Tokos, K., Yoshimori, M., Zeng, N. & Zhao, F. 2013 In : Climate of the Past. 9, 3, p. 1111-1140

Publication: Research - peer-review › Journal article – Annual report year: 2013

Komplementaritetsprincippet anvendt i statskundskab

Pedersen, J. O. P. 2013 In : Kvant. September, p. 28-29

Publication: Communication › Journal article – Annual report year: 2013

Long-Term Climate Change Commitment and Reversibility: An EMIC Intercomparison.

Zickfeld, K., Eby, M., Weaver, A. J., Alexander, K., Crespin, E., Edwards, N. R., Eliseev, A. V., Feulner, G., Fichet, T., Forest, C. E., Friedlingstein, P., Goosse, H., Holden, P. B., Joos, F., Kawamiya, M., Kicklighter, D., Kienert, H., Matsumoto, K., Mokhov, I. I., Mokhov, E., Olsen, S. M., Pedersen, J. O. P., Perrette, M., Philippon-Berthier, G., Ridgwell, A., Schlosser, A., Schneider Von Deimling, T., Shaffer, G., Sokolov, A., Spahni, R., Steinacher, M., Tachiiri, K., Tokos, K. S., Yoshimori, M., Zeng, N. & Zhao, F. 2013 In : Journal of Climate. 26, 16, p. 5782-5809

Publication: Research - peer-review › Journal article – Annual report year: 2013

Nyfigen robot

Pedersen, J. O. P. 2013 01.02.2013, Weekendavisen

Publication: Communication › Newspaper article – Annual report year: 2013

On the electric breakdown field of the mesosphere and the influence of electron detachment

Neubert, T. & Chanrion, O. A. 2013 In : Geophysical Research Letters. 40, 10, p. 2373-2377

Publication: Research - peer-review › Journal article – Annual report year: 2013

On the origin of the Amerasia Basin and the High Arctic Large Igneous Province-Results of new aeromagnetic data

Døssing, A., Jackson, H. R., Matzka, J., Einarsson, I., Rasmussen, T. M., Olesen, A. V. & Brozena, J. M. 2013 In : Earth and Planetary Science Letters. 363, p. 219-230

Publication: Research - peer-review › Journal article – Annual report year: 2013

Rejsen under jorden

Pedersen, J. O. P. 2013 In : *Aktuel Naturvidenskab*. 1, p. 22-25

Publication: Research › Journal article – Annual report year: 2013

Response of cloud condensation nuclei (>50 nm) to changes in ion-nucleation

Svensmark, H., Enghoff, M. A. B. & Pedersen, J. O. P. 2013 In : *Physics Letters A*. 377, 37, p. 2343-2347

Publication: Research - peer-review › Journal article – Annual report year: 2013

Response of Cloud Condensation Nuclei (> 50 nm) to changes in ion-nucleation

Pedersen, J. O. P., Enghoff, M. A. B. & Svensmark, H. 2013 In : *Geophysical Research Abstracts*. p. EGU2013-8895 1 p.

Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2013

Små partikler med stor effekt

Pedersen, J. O. P. 2013 1, 25.01.2013, *Weekendavisen*

Publication: Communication › Newspaper article – Annual report year: 2013

Space Weather opportunities from the Swarm mission including near real time applications

Stolle, C., Floberghagen, R., Luehr, H., Maus, S., Knudsen, D. J., Alken, P., Doornbos, E., Hamilton, B., Thomson, A. W. P. & Visser, P. N. 2013 In : *Earth, Planets and Space*. 65, 11, p. 1375-1383

Publication: Research - peer-review › Journal article – Annual report year: 2014

The Ionospheric Bubble Index deduced from magnetic field and plasma observations onboard Swarm

Park, J., Noja, M., Stolle, C. & Luehr, H. 2013 In : *Earth, Planets and Space*. 65, 11, p. 1333-1344

Publication: Research - peer-review › Journal article – Annual report year: 2014

Tropical cyclone cloud-top height and vertical temperature structure detection using GPS radio occultation measurements

Biondi, R., Ho, S. P., Randel, W., Syndergaard, S. & Neubert, T. 2013 In : *Journal of Geophysical Research-atmospheres*. 118, 11, p. 5247-5259

Publication: Research - peer-review › Journal article – Annual report year: 2013

Tungere standardkilogram

Pedersen, J. O. P. 2013 In : *Aktuel Naturvidenskab*. 1, p. 5 1 p.

Publication: Research › Journal article – Annual report year: 2013

Vand i evig bevægelse: Klodens kredsløb

Pedersen, J. O. P. 2013 1, 26, 28. juni, *Weekendavisen*

Publication: Communication › Newspaper article – Annual report year: 2013

Aerosol nucleation in an ultra-low ion density environment

Pedersen, J. O. P., Enghoff, M. A. B., Paling, S. M. & Svensmark, H. 2012 In : *Journal of Aerosol Science*. 50, p. 75-85

Publication: Research - peer-review › Journal article – Annual report year: 2012

An isotope view on ionising radiation as a source of sulphuric acid

Enghoff, M. A. B., Bork, N. C., Hattori, S., Meusinger, C., Nakagawa, M., Pedersen, J. O. P., Danielache, S., Ueno, Y., Johnson, M. S., Yoshida, N. & Svensmark, H. 2012 In : *Atmospheric Chemistry and Physics Discussions*. 12, 2, p. 5039-5064

Publication: Research - peer-review › Journal article – Annual report year: 2012

An isotopic analysis of ionising radiation as a source of sulphuric acid

Enghoff, M. A. B., Bork, N. C., Hattori, S., Meusinger, C., Nakagawa, M., Pedersen, J. O. P., Danielache, S., Ueno, Y., Johnson, M. S., Yoshida, N. & Svensmark, H. 2012 In : *Atmospheric Chemistry and Physics*. 12, 12, p. 5319-5327

Publication: Research - peer-review › Journal article – Annual report year: 2012

COMESSEP Deliverable D2.1: Repository of in situ data [Task 2.1]

Leer, K., Vennerstrøm, S., Ibsen, T., Rodriguez, L., Veronig, A. & Moestl, C. 2012 9 p.

Publication: Research › Report – Annual report year: 2013

Comparison between SuperDARN flow vectors and equivalent ionospheric currents from ground magnetometer arrays

Weygand, J. M., Amm, O., Angelopoulos, V., Milan, S. E., Grocott, A., Gleisner, H. & Stolle, C. 2012 In : Journal of Geophysical Research. 117, p. A05325 9 p.

Publication: Research - peer-review › Journal article – Annual report year: 2012

Core Processes: Earth's eccentric magnetic field

Finlay, C. 2012 In : Nature Geoscience. 5, 8, p. 523-524

Publication: Research - peer-review › Journal article – Annual report year: 2012

Core surface magnetic field evolution 2000–2010

Finlay, C., Jackson, A., Gillet, N. & Olsen, N. 2012 In : Geophysical Journal International. 189, 2, p. 761-781

Publication: Research - peer-review › Journal article – Annual report year: 2012

Cosmic Ray induced aerosol Formation in Earth's atmosphere

Pedersen, J. O. P. 2012

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Dansk nordlysforsker frem i lyset

Pedersen, J. O. P. 2012 In : Kvant. 23, 4, p. 31-32

Publication: Research › Review – Annual report year: 2012

Den magnetiske misvisning i Danmark og Grønland

Matzka, J. & Olsen, N. 2012 *Københavns Universitets Almanak 2012*. Københavns Universitet, p. 85-86

Publication: Research › Book chapter – Annual report year: 2012

Effects of cosmic ray decreases on cloud microphysics

Svensmark, J., Enghoff, M. B. & Svensmark, H. 2012 In : Atmospheric Chemistry and Physics Discussions. 12, 2, p. 3595

Publication: Research - peer-review › Journal article – Annual report year: 2012

Evidence of nearby supernovae affecting life on Earth

Svensmark, H. 2012 In : Monthly Notices of the Royal Astronomical Society. 423, 2, p. 1234-1253

Publication: Research - peer-review › Journal article – Annual report year: 2012

Farside explorer: unique science from a mission to the farside of the moon

Mimoun, D., Wieczorek, M. A., Alkalai, L., Banerdt, W. B., Baratoux, D., Bougeret, J-L., Bouley, S., Cecconi, B., Falcke, H., Flohrer, J., Garcia, R. F., Grimm, R., Grott, M., Gurvits, L., Jaumann, R., Johnson, C. L., Knapmeyer, M., Kobayashi, N., Konovalenko, A., Lawrence, D., Le Feuvre, M., Lognonne, P., Neal, C., Oberst, J., Olsen, N., Rottgering, H., Spohn, T., Vennerstrøm, S., Woan, G. & Zarka, P. 2012 In : Experimental Astronomy. 33, 2-3, p. 529-585

Publication: Research - peer-review › Journal article – Annual report year: 2012

Features of highly structured equatorial plasma irregularities deduced from CHAMP observations

Xiong, C., Luhr, H., Ma, S. Y., Stolle, C. & Fejer, B. G. 2012 In : Annales Geophysicae. 30, 8, p. 1259-1269

Publication: Research - peer-review › Journal article – Annual report year: 2012

Forecasting the space weather impact: the COMESSEP Project

Crosby, N. B., Veronig, A., Robbrecht, E., Vennerstrøm, S., Malandraki, O., Dalla, S., Rodriguez, L., Srivastava, N., Hesse, M. & Odstrcil, D. 2012 In : AIP Conference Proceedings Series. 1500, p. 159-164

Publication: Research - peer-review › Journal article – Annual report year: 2012

Frankensteins klimamonster

Pedersen, J. O. P. 2012 1, 16.11.2012, Weekendavisen

Publication: Communication › Newspaper article – Annual report year: 2012

Future Mars geophysical observatories for understanding its internal structure, rotation, and evolution

Dehant, V., Banerdt, B., Lognonné, P., Grott, M., Asmar, S., Biele, J., Breuer, D., Forget, F., Jaumann, R., Johnson, C., Knapmeyer, M., Langlais, B., Le Feuvre, M., Mimoun, D., Mocquet, A., Read, P., Rivoldini, A., Romberg, O., Schubert, G., Smrekar, S., Spohn, T., Tortora, P., Ulamec, S. & Vennerstrøm, S. 2012 In : Planetary and Space Science. 68, 1, p. 123-145

Publication: Research - peer-review › Journal article – Annual report year: 2012

High definition geomagnetic models: A new perspective for improved wellbore positioning

Maus, S., Nair, M. C., Poedjono, B., Okewunmi, S., Fairhead, D., Barckhausen, U., Milligan, P. R. & Matzka, J. 2012

IADC/SPE Drilling Conference and Exhibition. IADC/SPE Drilling Conference and Exhibition, p. 151436-MS

Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Historical and idealized climate model experiments: an EMIC intercomparison

Eby, M., Weaver, A. J., Alexander, K., Zickfeld, K., Abe-Ouchi, A., Cimadoribus, A. A., Cresspin, E., Drijfhout, S. S., Edwards, N. R., Eliseev, A. V., Feulner, G., Fichefet, T., Forest, C. E., Goosse, H., Holden, P. B., Joos, F., Kawamiya, M., Kicklighter, D., Kienert, H., Matsumoto, K., Mokhov, I. I., Monier, E., Olsen, S. M., Pedersen, J. O. P., Perrette, M., Philippon-Berthier, G., Ridgwell, A., Schlosser, A., Deimling, T. S. V., Shaffer, G., Smith, R. S., Spahni, R., Sokolov, A. P., Steinacher, M., Tachiiri, K., Tokos, K., Yoshimori, M., Zeng, N. & Zhao, F. 2012 In : Climate of the Past Discussions. 8, 4, p. 4121-4181

Publication: Research - peer-review › Journal article – Annual report year: 2012

Hjernemadsens hjørnebog

Pedersen, J. O. P. 2012 In : *Aktuel Naturvidenskab*. 6, p. 49

Publication: Research › Review – Annual report year: 2012

Ion-induced nucleation of the sulfuric acid – water system

Pedersen, J. O. P. 2012 In : *Geophysical Research Abstracts*. 14, p. EGU2012-8271 1 p.

Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2012

Kosmisk Jubilæum

Pedersen, J. O. P. 2012 2, 13.04.2012, Weekendavisen

Publication: Communication › Newspaper article – Annual report year: 2012

Magnetic activity at Mars - Mars Surface Magnetic Observatory

Vennerstrøm, S., Menvielle, M., Merayo, J. M. G. & Falkenberg, T. V. 2012 In : Planetary and Space Science. 73, 1, p. 364-375

Publication: Research - peer-review › Journal article – Annual report year: 2012

Multispacecraft observations of the terrestrial bow shock and magnetopause during extreme solar wind disturbances

Tatallay, M., Erdos, G., Nemeth, Z., Verigin, M. I. & Vennerstrøm, S. 2012 In : *Annales Geophysicae*. 30, 12, p. 1675-1692

Publication: Research - peer-review › Journal article – Annual report year: 2012

Når man skal tage temperaturen

Pedersen, J. O. P. 2012 1, 16.03.2012, Weekendavisen

Publication: Communication › Newspaper article – Annual report year: 2012

Nordlyset og skæbnen

Pedersen, J. O. P. 2012 1, 07.12.2012, Weekendavisen

Publication: Communication › Newspaper article – Annual report year: 2012

Observations of a Pc5 global (cavity/waveguide) mode outside the plasmasphere by THEMIS

Hartertinger, M., Angelopoulos, V., Moldwin, M. B., Nishimura, Y., Turner, D. L., Glassmeier, K-H., Kivelson, M. G., Matzka, J. & Stolle, C. 2012 In : Journal of Geophysical Research. 117, p. A06202 24 p.

Publication: Research - peer-review › Journal article – Annual report year: 2012

Partikelfysik temabog til gymnasiet

Pedersen, J. O. P. 2012 In : Kvant. 23, 3, p. 26

Publication: Research › Review – Annual report year: 2012

Relative-velocity distributions for two effusive atomic beams in counterpropagating and crossed-beam geometries

Pedersen, J. O. P. 2012 In : Advances in Mathematical Physics. p. 906414 18 p.

Publication: Research - peer-review › Journal article – Annual report year: 2012

Response of Cloud Condensation Nuclei (> 50 nm) to changes in ion-nucleation

Svensmark, H., Enghoff, M. B. & Pedersen, J. O. P. 2012 In : arXiv.org, e-Print Archive, Condensed Matter. 4 p.

Publication: Research - peer-review › Journal article – Annual report year: 2012

Satellite Geomagnetism

Olsen, N. & Stolle, C. 2012 In : Annual Review of Earth and Planetary Sciences. 40, p. 441-465

Publication: Research - peer-review › Journal article – Annual report year: 2012

Semi(?) annual variations of geo-magnetic storms

Leer, K., Dumbovic, M., Vennerstrøm, S., Veronig, A., Rodriguez, L., Sudar, D. & Vrsnak, B. 2012

Publication: Research - peer-review › Poster – Annual report year: 2012

Statistical models relating geomagnetic activity to Coronal Mass Ejections (CMEs)

Devos, A., Dumbovic, M., Rodrigues, L., Robbrecht, E., Vrsnak, B., Sudar, D., Ruzdjak, D., Dierckxsens, M., Veronig, A., Temmer, M., Vennerstrøm, S. & Leer, K. 2012

Publication: Research - peer-review › Poster – Annual report year: 2012

Sten fra himlen

Pedersen, J. O. P. 2012 1, 07.09.2012, Weekendavisen

Publication: Communication › Newspaper article – Annual report year: 2012

Storme i rummet

Pedersen, J. O. P. 2012 1, 14.09.2012, Weekendavisen

Publication: Communication › Newspaper article – Annual report year: 2012

Structures and reaction rates of the gaseous oxidation of SO₂ by an O₃ (H₂O)₀₋₅ cluster – a density functional theory investigation

Bork, N. C., Kurtén, T., Enghoff, M. A. B., Pedersen, J. O. P., Mikkelsen, K. V. & Svensmark, H. 2012 In : Atmospheric Chemistry and Physics. 12, 8, p. 3639-3652

Publication: Research - peer-review › Journal article – Annual report year: 2012

Styr på vejret

Pedersen, J. O. P. 2012 1, 05.10.2012, Weekendavisen

Publication: Communication › Newspaper article – Annual report year: 2012

The geomagnetic field gradient tensor: Properties and parametrization in terms of spherical harmonics

Kotsiaros, S. & Olsen, N. 2012 In : G E M - International Journal on Geomathematics. 3, 2, p. 297-314

Publication: Research - peer-review › Journal article – Annual report year: 2012

Thermal structure of intense convective clouds derived from GPS radio occultations

Biondi, R., Randel, W. J., Ho, S. -P., Neubert, T. & Syndergaard, S. 2012 In : Atmospheric Chemistry and Physics. 12, 12, p. 5309-5318

Publication: Research - peer-review › Journal article – Annual report year: 2012

Titusind teorier om alting

Pedersen, J. O. P. 2012 2, 20.01.2012, Weekendavisen

Publication: Communication › Newspaper article – Annual report year: 2012

Upper Troposphere Lower Stratosphere structure during convective systems using GPS radio occultations

Biondi, R., Neubert, T. & B. Larsen, G. 2012 Kgs. Lyngby: Technical University of Denmark. 111 p.

Publication: Research › Ph.D. thesis – Annual report year: 2012

Vaca Muerta-meteoritten – og dens forveksling med sølv

Pedersen, J. O. P. 2012 In : Kvant. 23, 4, p. 31

Publication: Research › Review – Annual report year: 2012

Vendepunktet

Pedersen, J. O. P. 2012 2, 15.06.2012, Weekendavisen

Publication: Communication › Newspaper article – Annual report year: 2012

Vildt vejr over Danmark

Pedersen, J. O. P. 2012 In : Aktuell Naturvidenskab. 1, p. 44 1 p.

Publication: Communication › Literature review – Annual report year: 2012

Wp index: A new substorm index derived from high-resolution geomagnetic field data at low latitude

Nose, M., Iyemori, T., Wang, L., Hitchman, A., Matzka, J., Feller, M., Egdorf, S., Gilder, S., Kumasaka, N., Koga, K., Matsumoto, H., Koshiishi, H., Cifuentes-Nava, G., Curto, J. J., Segarra, A. & Celik, C. 2012 In : Space Weather. 10, p. -

Publication: Research - peer-review › Journal article – Annual report year: 2012

The Properties of a Giant Jet Reflected in a Simultaneous Sprite

Neubert, T., Chanrion, O. A., Arnone, E., Zanotti, F., Cummer, S., Li, J., Füllekrug, M., Soula, S. & van der Velde, O. 30 Dec 2011 In : Journal of Geophysical Research-space Physics. 116, p. A12329 16 p.

Publication: Research - peer-review › Journal article – Annual report year: 2012

Influence of Solar activity on planetary environments - Future Mars explorations

Falkenberg, T. V. & Vennerstrøm, S. Jun 2011 Kgs. Lyngby, Denmark: Technical University of Denmark (DTU).

Publication: Research › Ph.D. thesis – Annual report year: 2011

Ab initio studies of O₂-(H₂O)_n and O₃-(H₂O)_n anionic molecular clusters, n≤12

Bork, N. C., Kurtén, T., Enghoff, M. A. B., Pedersen, J. O. P., Mikkelsen, K. V. & Svensmark, H. 2011 In : Atmospheric Chemistry and Physics Discussions. 11, 14, p. 13947-13973

Publication: Research - peer-review › Journal article – Annual report year: 2011

Den magnetiske misvisning i Danmark

Matzka, J. & Olsen, N. 2011 *Københavns Universitets Almanak : skriv- og rejse-kalender for det år efter kristi fødsel 2011 som er det tredje år efter skudår*. København: Nyt Nordisk Forlag Arnold Busck, p. 99-100 2 p.

Publication: Research › Book chapter – Annual report year: 2012

Earth-Affecting Solar Causes Observatory (EASCO): a mission at the Sun-Earth L5

Gopalswamy, N., Davila, J. M., Auchère, F., Schou, J., Korendyke, C. M., Shih, A., Johnston, J. C., MacDowall, R. J., Maksimovic, M., Sittler, E., Szabo, A., Wesenberg, R., Vennerstrøm, S. & Heber, B. 2011 In : Proceedings of SPIE--the international society for optical engineering. 8148, 1, p. 81480Z

Publication: Research - peer-review › Conference article – Annual report year: 2011

Equatorial electrodynamics and neutral background in the Asian sector during the 2009 stratospheric sudden warming

Liu, H., Yamamoto, M., Ram, S. T., Tsugawa, T., Otsuka, Y., Stolle, C., Doornbos, E., Yumoto, K. & Nagatsuma, T. 2011 In : Journal of Geophysical Research. 116, p. A08308

Publication: Research - peer-review › Journal article – Annual report year: 2011

Evaluating predictions of ICME arrival at Earth and Mars

Falkenberg, T. V., Taktakishvili, A., Pulkkinen, A., Vennerstrøm, S., Odstrcil, D., Brain, D., Delory, G. & Mitchell, D. 2011 In : Space Weather. 9, p. 1-25

Publication: Research - peer-review › Journal article – Annual report year: 2011

Geomagnetic core field models in the satellite era

Lesur, V., Olsen, N. & Thomson, A. W. P. 2011 *Geomagnetic Observations and Models*. Springer Science+Business Media B.V., Vol. 5, p. 277-294 358 p. (IAGA Special Sopron Book Series).

Publication: Research - peer-review › Book chapter – Annual report year: 2011

Improvements in geomagnetic observatory data quality

Reda, J., Fouassier, D., Isac, A., Linthe, H.-J., Matzka, J. & Turbitt, C. W. 2011 *Geomagnetic Observations and Models*. Springer Science+Business Media B.V., Vol. 5, p. 127-148 358 p. (IAGA Special Sopron Book Series).

Publication: Research - peer-review › Book chapter – Annual report year: 2011

Magnetic Satellite Missions and Data

Olsen, N. & Kotsiaros, S. 2011 *Geomagnetic Observations and Models*. Springer Science+Business Media B.V., Vol. 5, p. 27-44 358 p. (IAGA Special Sopron Book Series).

Publication: Research - peer-review › Book chapter – Annual report year: 2011

Magnetic storms on Mars

Vennerstrøm, S. 2011 In : Icarus. 215, 1, p. 234-241

Publication: Research - peer-review › Journal article – Annual report year: 2011

Mapping geomagnetic secular variation at the core-mantle boundary

Holme, R., Olsen, N. & Bairstow, F. L. 2011 In : Geophysical Journal International. 186, 2, p. 521-528

Publication: Research - peer-review › Journal article – Annual report year: 2011

Measurements of the upper troposphere and lower stratosphere during tropical cyclones using the GPS radio occultation technique

Biondi, R., Neubert, T., Syndergaard, S. & Nielsen, J. 2011 In : Advances in Space Research. 47, 2, p. 348-355

Publication: Research - peer-review › Journal article – Annual report year: 2010

Multipoint observations of coronal mass ejection and solar energetic particle events on Mars and Earth during November 2001

Falkenberg, T. V., Vennerstrøm, S., Brain, D. A., Delory, G. & Taktakishvili, A. 2011 In : Journal of Geophysical Research. 116, p. 1-15

Publication: Research - peer-review › Journal article – Annual report year: 2011

Radio occultation bending angle anomalies during tropical cyclones

Biondi, R., Neubert, T., Syndergaard, S. & Nielsen, J. 2011 In : Atmospheric Measurement Techniques. 4, 6, p. 1053-1060

Publication: Research - peer-review › Journal article – Annual report year: 2011

Relativistic electron beams above thunderclouds

Füllekrug, M., Roussel-Dupre, R., Symbalisty, E. M. D., Colman, J. J., Chanrion, O. A., Soula, S., van der Velde, O., Odzimek, A., Bennett, A. J., Pasko, V. P. & Neubert, T. 2011 In : Atmospheric Chemistry and Physics. 11, 15, p. 7747-7754

Publication: Research - peer-review › Journal article – Annual report year: 2011

Relativistic runaway breakdown in low-frequency radio

Füllekrug, M., Roussel-Dupre, R., Symbalisty, E. M. D., Chanrion, O. A., Odzimek, A., van der Velde, O. & Neubert, T. 2011 In : Journal of Geophysical Research. 116, A1, p. A00E09

Publication: Research - peer-review › Journal article – Annual report year: 2010

Solaktivitet og klimaændringer

Pedersen, J. O. P. 2011 In : Kvant. 22, 4, p. 26-31

Publication: Communication › Journal article – Annual report year: 2011

Solar flux variation of the electron temperature morning overshoot in the equatorial F region

Stolle, C., Liu, H., Truhlik, V., Luehr, H. & Richards, P. G. 2011 In : Journal of Geophysical Research. 116, p. A04308

Publication: Research - peer-review › Journal article – Annual report year: 2011

The geomagnetic observatory on Tristan da Cunha: Setup, operation and experiences

Matzka, J., Husøy, B-O., Berarducci, A., Wright, D., Pedersen, L. W., Stolle, C., Repetto, R., Genin, L., Merenyi, L. & Green, J. J. 2011 In : Data Science Journal. 10, p. IAGA151-IAGA158

Publication: Research - peer-review › Journal article – Annual report year: 2011

Thermal structure of intense convective clouds derived from GPS radio occultations

Biondi, R., Randel, W. J., Ho, S-P., Neubert, T. & Syndergaard, S. 2011 In : Atmospheric Chemistry and Physics Discussions. 11, p. 29093-29116

Publication: Research - peer-review › Journal article – Annual report year: 2011

Tropical cyclones detection using GPS radio occultation data

Biondi, R., Neubert, T., Peng Ho, S. & Syndergaard, S. 2011

Publication: Research › Poster – Annual report year: 2011

More evidence for a one-to-one correlation between Sprites and Early VLF perturbations

Haldoupis, C., Amvrosiadi, N., Cotts, B. R. T., van der Velde, O. A., Chanrion, O. A. & Neubert, T. 10 Jul 2010 In : Journal of Geophysical Research. 115, p. A07304

Publication: Research - peer-review › Journal article – Annual report year: 2010

Production of runaway electrons by negative streamer discharges

Chanrion, O. A. & Neubert, T. 9 Jun 2010 In : Journal of Geophysical Research. 115, p. A00E32 10 p.

Publication: Research - peer-review › Journal article – Annual report year: 2010

Influence of cosmic radiation on aerosol and cloud formation over short time periods

Bondo, T. & Svensmark, H. Mar 2010 Kgs. Lyngby, Denmark: Technical University of Denmark (DTU). 148 p.

Publication: Research › Ph.D. thesis – Annual report year: 2010

A new aeromagnetic survey of the North Pole and the Arctic Ocean north of Greenland and Ellesmere Island

Matzka, J., Rasmussen, T. M., Olesen, A. V., Nielsen, J. E., Forsberg, R., Olsen, N., Halpenny, J. & Verhoef, J. 2010 In : Earth, Planets and Space. 62, 10, p. 829-832

Publication: Research - peer-review › Journal article – Annual report year: 2010

Characteristics and conditions of production of transient luminous events observed over a maritime storm

Soula, S., van der Velde, O., Palmiéri, J., Chanrion, O. A., Neubert, T., Montanyà, J., Gangneron, F., Meyerfeld, Y., Lefevre, F. & Lointier, G. 2010 In : Journal of Geophysical Research. 115, p. D16118 14 p.

Publication: Research - peer-review › Journal article – Annual report year: 2010

Closed loop simulation for a magnetic gradiometry mission

Kotsiaros, S. & Olsen, N. 2010

Publication: Research › Poster – Annual report year: 2010

COBRAT Project: Long duration balloons for the study of high energy phenomena and consequences for stratospheric chemistry

Renard, J-B., Berthet, G., Catoire, V., Huret, N., Lagoutte, D., Lefevre, F., Pincon, J-L., Robert, C., Tagger, M., Seran, E., Godefroy, M., Bliely, P-L., Soula, S., Coquillat, S., Ostgaard, N., Neubert, T. & Lebrun, F. 2010 *Proceedings of the 19th ESA Symposium on European Rocket and Balloon Programmes and Related Research*. European Space Agency, ESA, p. 181-186

Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Convective towers detection using GPS radio occultations

Biondi, R., Neubert, T., Syndergaard, S. & Nielsen, J. 2010

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2010

Dansk jagt på feer i rummet

Friis-Christensen, E. & Neubert, T. 2010 Berlingske Tidende

Publication: Communication › Newspaper article – Annual report year: 2010

Evaluation of candidate geomagnetic field models for IGRF-11

Finlay, C., Maus, S., Beggan, C. D., Hamoudi, M., Lowes, F. J., Olsen, N. & Thébault, E. 2010 In : Earth, Planets and Space. 62, p. 787-804

Publication: Research - peer-review › Journal article – Annual report year: 2010

Geomagnetic Core Field Secular Variation Models

Gillet, N., Lesur, V. & Olsen, N. 2010 In : Space Science Reviews. 155, 1-4, p. 129-145

Publication: Research - peer-review › Journal article – Annual report year: 2010

Geomagnetic Observations for Main Field Studies: from Ground to Space

Matzka, J., Chulliat, A., Manda, M., Finlay, C. & Qamili, E. 2010 In : Space Science Reviews. 155, 1-4, p. 29-64

Publication: Research - peer-review › Journal article – Annual report year: 2010

International Geomagnetic Reference Field: The eleventh generation

Finlay, C., Maus, S., Beggan, C. D., Bondar, T. N., Chambodut, A., Chernova, T. A., Chulliat, A., Golovkov, V. P., Hamilton, B., Hamoudi, M., Holme, R., Hulot, G., Kuang, W., Langlais, B., Lesur, V., Lowes, F. J., Lüher, H., Macmillan, S., Manda, M., McLean, S., Manoj, C., Menvielle, M., Michaelis, I., Olsen, N., Rauberg, J., Rother, M., Sabaka, T. J., Tangborn, A., Tøffner-Clausen, L., Thébault, E., Thomson, A. W. P., Wardinski, I., Wei, Z. & Zvereva, T. I. 2010 In : Geophysical Journal International. 183, 3, p. 1216-1230

Publication: Research - peer-review › Journal article – Annual report year: 2010

Investigations of the sensitivity of a coronal mass ejection model (ENLIL) to solar input parameters

Falkenberg, T. V., Vršnak, B., Taktakishvili, A., Odstrčil, D., MacNeice, P. & Hesse, M. 2010 In : Space Weather. 8, S06004

Publication: Research - peer-review › Journal article – Annual report year: 2010

K-Band Radio frequency Interference Survey of Southeastern Michigan

Curry, S., Ahlers, M. F., Elliot, H., Gross, S., McKague, D., Misra, S., Puckett, J. & Ruf, C. 2010 *International Geoscience and Remote Sensing Symposium proceedings*. IEEE, p. 2486-2489

Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Magnetic local time dependence of geomagnetic disturbances contributing to the AU and AL indices

Tomita, S., Nose, M., Iyemori, T., Toh, H., Takeda, M., Matzka, J., Björnsson, G., Saemundsson, T., Janzhura, A., Troshichev, O. & Schwarz, G. 2010 In : Annales Geophysicae. 29, 4, p. 673-678

Publication: Research - peer-review › Journal article – Annual report year: 2011

Mathematical Properties Relevant to Geomagnetic Field Modeling

Sabaka, T. J., Hulot, G. & Olsen, N. 2010 *Handbook of Geomathematics*. Springer, p. 504-538

Publication: Research - peer-review › Book chapter – Annual report year: 2010

Measuring the Earth's Magnetic Field from Space: Concepts of Past, Present and Future Missions

Olsen, N., Hulot, G. & Sabaka, T. J. 2010 In : Space Science Reviews. 155, 1-4, p. 65-93

Publication: Research - peer-review › Journal article – Annual report year: 2010

Model of optical response of marine aerosols to Forbush decreases

Bondo, T., Enghoff, M. A. B. & Svensmark, H. 2010 In : Atmospheric Chemistry and Physics. 10, 6, p. 2765-2776

Publication: Research - peer-review › Journal article – Annual report year: 2010

Nanoparticle formation in H₂O/N₂ and H₂O/Ar mixtures under irradiation by 20 MeV protons and positive corona discharge

Imanaka, M., Tomita, S., Kanda, S., Fujieda, M., Sasa, K., Pedersen, J. O. P. & Kudo, H. 2010 In : Journal of Aerosol Science. 41, 5, p. 468-474

Publication: Research - peer-review › Journal article – Annual report year: 2010

Observation of magnetic diffusion in the Earth's outer core from Magsat, Orsted, and CHAMP data

Chulliat, A. & Olsen, N. 2010 In : Journal of Geophysical Research. 115, p. B05105

Publication: Research - peer-review › Journal article – Annual report year: 2010

Plasma flow during the brightening of proton aurora in the cusp

Taguchi, S., Hosokawa, K., Suzuki, S., Tawara, A., Frey, H. U., Matzka, J., Yukimatu, A. S. & Sato, N. 2010 In : Journal of Geophysical Research. 115, p. A10308

Publication: Research - peer-review › Journal article – Annual report year: 2010

Radio Occultation Bending Angle Anomalies During Tropical Cyclones

Biondi, R., Neubert, T., Syndergaard, S. & Nielsen, J. 2010

Publication: Research › Poster – Annual report year: 2010

Results from the CERN pilot CLOUD experiment

Duplissy, J., Enghoff, M. A. B., Aplin, K. L., Arnold, F., Aufmhoff, H., Avngaard, M., Baltensperger, U., Bondo, T., Bingham, R., Carslaw, K., Curtius, J., David, A., Fastrup, B., Gagne, S., Hahn, F., Harrison, R. G., Kellett, B., Kirkby, J., Kulmala, M., Laakso, L., Laaksonen, A., Lillestol, E., Lockwood, M., Makela, J., Makhmutov, V., Marsh, N. D., Nieminen, T., Onnela, A., Pedersen, E., Pedersen, J. O. P., Polny, J., Reichl, U., Seinfeld, J. H., Sipila, M., Stozhkov, Y., Stratmann, F., Svensmark, H., Svensmark, J., Veenhof, R., Verheggen, B., Viisanen, Y., Wagner, P. E., Wehrle, G., Weingartner, E., Wex, H., Wilhelmsson, M. & Winkler, P. M. 2010 In : Atmospheric Chemistry and Physics. 10, 4, p. 1635-1647

Publication: Research - peer-review › Journal article – Annual report year: 2010

Separation of the Magnetic Field into External and Internal Parts

Olsen, N., Glassmeier, K.-H. & Jia, X. 2010 In : Space Science Reviews. 152, 1-4, p. 135-157

Publication: Research - peer-review › Journal article – Annual report year: 2010

Sotera deliverable 4.3: Solar wind–magnetosphere coupling and the terrestrial impact

Vennerstrøm, S., Christiansen, F., Asikainen, T., Mursula, K., Crespon, F., Tátrallyay, M., Kecskeméty, K., Németh, Z., Kuzin, S. V., Slemzin, V. A., Ulyanov, A. S., Bogachev, S. A., Sylwester, J., Gburek, S., Podgorski, P., Kowalinski, M. & Verigin, M. I. 2010 European Community's Seventh Framework Program. 104 p.

Publication: Research › Report – Annual report year: 2010

Sources of the Geomagnetic Field and the Modern Data That Enable Their Investigation

Olsen, N., Hulot, G. & Sabaka, T. J. 2010 *Handbook of Geomathematics*. Springer, p. 106-124

Publication: Research - peer-review › Book chapter – Annual report year: 2010

The CHAOS-3 Geomagnetic Field Model and Candidates for the 11th Generation IGRF

Olsen, N., Manda, M., Sabaka, T. J. & Tøffner-Clausen, L. 2010 In : Earth, Planets and Space. 62, 10, p. 719-727

Publication: Research - peer-review › Journal article – Annual report year: 2010

The Earth's Magnetic Field in the Space Age: An Introduction to Terrestrial Magnetism

Hulot, G., Balogh, A., Christensen, U. R., Constable, C. G., Manda, M. & Olsen, N. 2010 In : Space Science Reviews. 155, 1-4, p. 1-7

Publication: Research - peer-review › Journal article – Annual report year: 2010

The Magnetic Field of Planet Earth

Hulot, G., Finlay, C., Constable, C. G., Olsen, N. & Manda, M. 2010 In : Space Science Reviews. 152, 1-4, p. 159-222

Publication: Research - peer-review › Journal article – Annual report year: 2010

The role of aerodynamic drag in propagation of interplanetary coronal mass ejections

Vršnak, B., Žic, T., Falkenberg, T. V., Möstl, C., Vennerstrøm, S. & Vrbanec, D. 2010 In : *Astronomy & Astrophysics*. 512, p. A43

Publication: Research - peer-review › Journal article – Annual report year: 2010

VLF observations of ionospheric disturbances in association with TLEs from the EuroSprite-2007 campaign

NaitAmor, S., AlAbdoaim, M. A., Cohen, M. B., Cotts, B. R. T., Soula, S., Chanrion, O. A., Neubert, T. & Abdelatif, T. 2010 In : *Journal of Geophysical Research*. 115, A7, p. A00E47 9 p.

Publication: Research - peer-review › Journal article – Annual report year: 2011

Analysis of thunderstorm and lightning activity associated with sprites observed during the EuroSprite campaigns: two case studies

Soula, S., van der Velde, O., Montanyà, J., Neubert, T., Chanrion, O. A. & Ganot, M. Feb 2009 In : *Atmospheric Research*. 91, 2-4, p. 514-528

Publication: Research - peer-review › Conference article – Annual report year: 2009

ASIM - an Instrument Suite for the International Space Station

Neubert, T., Crosby, B., Huang, T-Y. & Rycroft, M. J. 2009 *AIP Conference Proceedings Coupling of Thunderstorms and Lightning Discharges to Near-Earth Space: AIP Conference Proceedings*. American Institute of Physics, p. 8-12 (AIP Conference Proceedings Series, Vol. 1118).

Publication: Research › Article in proceedings – Annual report year: 2009

CHAOS-2-a geomagnetic field model derived from one decade of continuous satellite data

Olsen, N., Manda, M., Sabaka, T. J. & Tøffner-Clausen, L. 2009 In : *Geophysical Journal International*. 179, 3, p. 1477-1487

Publication: Research - peer-review › Journal article – Annual report year: 2009

COSMIC Radio Occultation technique for measurement of the tropopause during tropical cyclones

Biondi, R., Neubert, T., Syndergaard, S. & Nielsen, J. 2009

Publication: Research › Poster – Annual report year: 2009

Cosmic ray decreases affect atmospheric aerosols and clouds

Svensmark, H., Bondo, T. & Svensmark, J. 2009 In : *Geophysical Research Letters*. 36, p. L15101

Publication: Research - peer-review › Journal article – Annual report year: 2009

Crustal concealing of small-scale core-field secular variation

Hulot, G., Olsen, N., Thebault, E. & Hemant, K. 2009 In : *Geophysical Journal International*. 177, 2, p. 361-366

Publication: Research - peer-review › Journal article – Annual report year: 2009

ELF/VLF signatures of sprite-producing lightning discharges observed during the 2005 EuroSprite campaign

Greenberg, E., Price, C., Yair, Y., Haldoupis, C., Chanrion, O. A. & Neubert, T. 2009 In : *Journal of Atmospheric and Solar - Terrestrial Physics*. 71, 12, p. 1254-1266

Publication: Research - peer-review › Journal article – Annual report year: 2009

From Swarm data validation to fast diagnosis of Swarm system performance

Kotsiaros, S., Plank, G., Haagmans, R. & Olsen, N. 2009

Publication: Research - peer-review › Poster – Annual report year: 2009

Geomagnetic observations on Tristan da Cunha, South Atlantic Ocean

Matzka, J., Olsen, N., Maule, C. F., Pedersen, L. W., Berarducci, A. M. & Macmillan, S. 2009 In : *Annals of Geophysics*. 52, 1, p. 97-105

Publication: Research - peer-review › Conference article – Annual report year: 2009

GPS radio occultation technique for measurement of the atmosphere above tropical cyclones

Biondi, R., Neubert, T., Syndergaard, S. & Nielsen, J. 2009 *2nd International COSPAR Colloquium -: Scientific and Fundamental Aspects of the Galileo Programme*. Vol. wpp 302 Proceeding, 6 p.

Publication: Research › Article in proceedings – Annual report year: 2009

Jordens egen påvirkning

Pedersen, J. O. P. 2009 In : *Weekendavisen*.

Publication: Research › Journal article – Annual report year: 2009

Long-term ocean oxygen depletion in response to carbon dioxide emissions from fossil fuels

Shaffer, G., Olsen, S. M. & Pedersen, J. O. P. 2009 In : *Nature Geoscience*. 2, 2, p. 105-109

Publication: Research - peer-review › Journal article – Annual report year: 2009

On the existence of the hypervalent H₃O, H₂DO, HD₂O, and D₃O radicals

Hvelplunda, P., Nielsen, S. B., Panjaa, S., Pedersen, J. O. P. & Uggerud, E. 2009 In : *International Journal of Mass Spectrometry*. 281, 1-2, p. 52-54

Publication: Research - peer-review › Journal article – Annual report year: 2009

On the geographical distribution of induced time-varying crustal magnetic fields

Thebault, E., Hemant, K., Hulot, G. & Olsen, N. 2009 In : *Geophysical Research Letters*. 36, p. L01307

Publication: Research - peer-review › Journal article – Annual report year: 2009

Quick look tools for magnetic field retrievals from Swarm satellite data

Kotsiaros, S., Plank, G., Haagmans, R. & Olsen, N. 2009

Publication: Research › Poster – Annual report year: 2009

Results from the CERN pilot CLOUD experiment

Duplissy, J., Enghoff, M. A. B., Aplin, K. L., Arnold, F., Aufmhoff, H., Avngaard, M., Baltensperger, U., Bondo, T., Bingham, R., Carslaw, K., Curtius, J., David, A., Fastrup, B., Gagné, S., Hahn, F., Harrison, R. G., Kellett, B., Kirkby, J., Kulmala, M., Laakso, L., Laaksonen, A., Lillestol, E., Lockwood, M., Mäkelä, J., Makhmutov, V., Marsh, N. D., Nieminen, T., Onnela, A., Pedersen, E., Pedersen, J. O. P., Polny, J., Reichl, U., Seinfeld, J. H., Sipilä, M., Stozhkov, Y., Stratmann, F., Svensmark, H., Svensmark, J., Veenhof, R., Viisanen, Y., Wagner, P. E., Wehrle, G., Weingartner, E., Wex, H., Wilhelmsson, M. & Winkler, P. M. 2009 In : *Atmospheric Chemistry and Physics Discussions*. 9, 5, p. 18235-18270

Publication: Research - peer-review › Journal article – Annual report year: 2009

The adventurous journey of Spaceship Earth

Svensmark, H. 2009 *Engineering Challenges: energy, climate change & health*. Hansen, C. B. (ed.). Kgs.Lyngby: Technical University of Denmark, p. 160-169 (DTU research series).

Publication: Research › Book chapter – Annual report year: 2009

Recent results from studies of electric discharges in the mesosphere

Neubert, T., Rycroft, M., Farges, T., Chanrion, O. A., Arnone, E., Odzimek, A., Arnold, N., Enell, C. F., Turunen, E., Bosinger, T., Mika, A., Haldoupis, C., Steiner, R. J., van der Velde, O., Soula, S., Berg, P., Boberg, F., Thejll, P., Christiansen, B., Ignaccolo, M., Fullekrug, M., Verronen, P. T., Montanya, J. & Crosby, N. Mar 2008 In : *Surveys in Geophysics*. 29, 2, p. 71-137

Publication: Research - peer-review › Review – Annual report year: 2008

3-D Frequency-Domain Inversion of Global Induction Data

Kuvshinov, A., Semenov, A., Pankratov, O., Jackson, A. & Olsen, N. 2008

Publication: Research › Poster – Annual report year: 2008

A PIC-MCC code for simulation of streamer propagation in air

Chanrion, O. A. & Neubert, T. 2008 In : *Journal of Computational Physics*. 15, 15, p. 7222-7245

Publication: Research - peer-review › Journal article – Annual report year: 2008

En sværm tager form

Olsen, N. & Schneider, B. 2008 In : *Aktuel Naturvidenskab*. 1, p. 4-7

Publication: Communication › Journal article – Annual report year: 2008

Feasibility of a Constellation of Miniature Satellites for Performing Measurements of the Magnetic Field of the Earth

Thomsen, M., Merayo, J. M. G., Brauer, P., Vennerstrøm, S., Olsen, N. & Tøffner-Clausen, L. 2008 *Small Satellites for Earth Observation*. 1 ed. Netherlands: Springer, p. 123-132 406 p.

Publication: Research - peer-review › Book chapter – Annual report year: 2008

Mystiske forandringer i Jordens magnetfelt

Olsen, N. & Lyndgaard, L. 2008 In : *Geografisk Orientering*. 5, p. 674-678

Publication: Communication › Journal article – Annual report year: 2008

On-board processing of video image sequences

Andersen, J. D., Chanrion, O. A., Forchhammer, S. & Rasmussen, I. L. 2008 *Proc. 10. International Workshop on Signal Processing for Space Communications*. IEEE, p. 1-7

Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

On external field contributions and the regularisation of core field models

Olsen, N. 2008

Publication: Research › Poster – Annual report year: 2008

Parameterisation of the chemical effects of sprites in the middle atmosphere

Enell, C. F., Arnone, E., Adachi, T., Chanrion, O. A., Verronen, P. T., Seppala, A., Neubert, T., Ulich, T., Turunen, E., Takahashi, Y. & Hsu, R. R. 2008 In : *Annales Geophysicae*. 26, 1, p. 13-27

Publication: Research - peer-review › Journal article – Annual report year: 2008

Rapid changes in the geomagnetic field: from global to regional scales

Mandea, M. & Olsen, N. 2008

Publication: Research › Poster – Annual report year: 2008

Rapidly changing flows in the Earth's core

Olsen, N. & Mandea, M. 2008 In : *Nature Geosciences*. 1, 6, p. 390-394

Publication: Research - peer-review › Journal article – Annual report year: 2008

Reprocessing of POGO Satellite Data: Preliminary Results of some Experiments

Olsen, N., Christiansen, F. & Jackson, A. 2008

Publication: Research › Poster – Annual report year: 2008

The Eurosprite 2005 campaign

Arnone, E., Berg, P., Boberg, F., Bór, J., Chanrion, O. A., Enell, C-F., Ignaccolo, M., Mika, Á., Odzimek, A., van der Velde, O., Farges, T., Laursen, S., Neubert, T. & Satori, G. 2008 *Proceedings of the 33rd Annual European meeting on Atmospheric Studies by Optical Methods (33AM)*. Kiruna, Sweden: Swedish Institute of Space Physics, p. 29-40 (Swedish Institute of Space Physics. I R F Scientific Report, Vol. 292).

Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

The role of atmospheric ions in aerosol nucleation: a review

Enghoff, M. A. B. & Svensmark, H. 2008 In : *Atmospheric Chemistry and Physics*. 8, 16, p. 4911-4923

Publication: Research - peer-review › Journal article – Annual report year: 2008

Towards diagnostic tools for analysing Swarm data through model retrievals

Kotsiaros, S., Plank, G., Haagmans, R. & Olsen, N. 2008

Publication: Research › Poster – Annual report year: 2008

What are the influences of solar eclipses on the equatorial electrojet?

Thomas, A., Lühr, H., Rother, M., Manoj, C., Olsen, N. & Watari, S. 2008 In : Journal of Atmospheric and Solar - Terrestrial Physics. 70, 11-12, p. 1497-1511

Publication: Research - peer-review › Journal article – Annual report year: 2008

2D axisymmetrical particle modelling of the production of thermal runaway electron by sprite streamers

Chanrion, O. A. & Neubert, T. 2007 *EGU General Assembly*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

A semi-autonomous optical observatory for sprite observations

Chanrion, O. A. & Neubert, T. 2007 *Proceedings of the Second International Symposium on Lightning Physics and Effects*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Cosmic Rays and Climate

Pedersen, J. O. P. 2007

Publication: Research › Poster – Annual report year: 2007

Cosmoclimatology: a new theory emerges

Svensmark, H. 2007 In : Astronomy & Geophysics. 48, 1, p. 18-24

Publication: Research - peer-review › Journal article – Annual report year: 2007

Experimental evidence for the role of ions in particle nucleation under atmospheric conditions

Svensmark, H., Pedersen, J. O. P., Marsh, N. D., Enghoff, M. A. B. & Uggerhoj, U. I. 2007 In : Proceedings of the Royal Society A-mathematical Physical and Engineering Sciences. 463, 2078, p. 385-396

Publication: Research - peer-review › Journal article – Annual report year: 2007

Fluxgate magnetometry for precise mapping of the Earth's field

Primdahl, F., Merayo, J. M. G. & Brauer, P. 2007 In : Sensor Letters. 5, 1, p. 110-112

Publication: Research - peer-review › Journal article – Annual report year: 2007

GEPID-B, GEP Interface Control Document for the MSMO Instrument for the ExoMars mission

Vennerstrøm, S., Menvielle, M. & Merayo, J. M. G. 2007 DRC.

Publication: Research › Report – Annual report year: 2007

Guldlok og de nye planeter

Pedersen, J. O. P. 2007 In : Weekendavisen.

Publication: Research › Journal article – Annual report year: 2007

Investigation of a secular variation impulse using satellite data: The 2003 geomagnetic jerk

Olsen, N. & Manda, M. 2007 In : Earth and Planetary Science Letters. 255, 1-2, p. 94-105

Publication: Research - peer-review › Journal article – Annual report year: 2007

Jagten på det mørke stof i dybet

Pedersen, J. O. P. 2007 In : Kvant.

Publication: Research - peer-review › Journal article – Annual report year: 2007

Lightning processes associated with a displaced sprite

Montanya, J. O., Van der Velde, A., Soula, S., Mika, A., Neubert, T. & Bech, J. 2007 In : Geophysical Research Letters.

Publication: Research - peer-review › Journal article – Annual report year: 2007

Mars Surface Magnetic Observatory - ICD: Interface Control Document for the Pasteur Instrument Payload for the ExoMars mission

Vennerstrøm, S., Menvielle, M. & Merayo, J. M. G. 2007 DRC.

Publication: Research › Report – Annual report year: 2007

Natural Sources for Electromagnetic induction studies

Olsen, N., Gubbins, D. (ed.) & Herrero-Bervera, E. (ed.) 2007 *Encyclopedia of Geomagnetism and Paleomagnetism*. p. 696-700

Publication: Research - peer-review › Book chapter – Annual report year: 2007

New model simulations of the global atmospheric electric circuit driven by thunderstorms and electrified shower clouds: The roles of lightning and sprites

Rycroft, M. J., Odzimek, A., Arnold, N. F., Fullekrug, M., Kulak, A. & Neubert, T. 2007 In : *Journal of Atmospheric and Solar - Terrestrial Physics*. 69, 17-18, p. 2485-2509

Publication: Research - peer-review › Conference article – Annual report year: 2007

On induction effects of geomagnetic daily variations from equatorial electrojet and solar quiet sources at low and middle latitudes

Kuvshinov, A., Manoj, C., Olsen, N. & Sabaka, T. J. 2007 In : *Journal of Geophysical Research*. 112, B 10

Publication: Research - peer-review › Journal article – Annual report year: 2007

On the cause of IMF By related mid- and low latitude magnetic disturbances

Vennerstrøm, S., Christiansen, F., Olsen, N. & Moretto, T. 2007 In : *Geophysical Research Letters*. 34, 16

Publication: Research - peer-review › Journal article – Annual report year: 2007

Ørsted: Encyclopedia of Geomagnetism and Paleomagnetism

Olsen, N., Gubbins, D. (ed.) & Herrero-Bervera, E. (ed.) 2007 *Encyclopedia of Geomagnetism and Paleomagnetism*. p. 743-746

Publication: Research - peer-review › Book chapter – Annual report year: 2007

The Atmosphere-Space Interactions Monitor (ASIM) Payload Facility on the ISS

Reibaldi, G., Nasca, R., Neubert, T. & Hartnack, O. 2007

Publication: Research - peer-review › Paper – Annual report year: 2007

The chemical impact of transient luminous events in the middle atmosphere

Chanrion, O. A., Enell, C-F., Arnone, E., Adachi, T., Verronen, P. T., Seppla, A., Neubert, T. & Ulich, T. 2007 *Proceedings of the IUGG XXIV General Assembly*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

The Present Field

Hulot, G., Sabaka, T. J. & Olsen, N. 2007 In : *Treatise of Geophysics*. 5

Publication: Research - peer-review › Journal article – Annual report year: 2007

The Sprite 2005 Observation Campaign: A training opportunity for the CAL young scientists

Chanrion, O. A., Crosby, N., Arnone, E., Boberg, F., Van der Velde, O., Odzimek, A., Mika, A., Berg, P., Enel, C-F., Ignaccolo, M., Steiner, R., Laursen, S. & Neubert, T. 2007 In : *Advances in Geosciences*. 13, p. 3-9

Publication: Research - peer-review › Journal article – Annual report year: 2007

Will the magnetic North Pole move to Siberia?

Olsen, N. & Manda, M. 2007 In : *TRANSACTIONS-AMERICAN GEOPHYSICAL UNION*. 88, 29, p. 293

Publication: Research - peer-review › Journal article – Annual report year: 2007

Constraining the composition and thermal state of the moon from an inversion of electromagnetic lunar day-side transfer functions

Khan, A., Connolly, J. A. D., Olsen, N. & Mosegaard, K. 30 Aug 2006 In : *Earth and Planetary Science Letters*. 248, 3-4, p. 579-598

Publication: Research - peer-review › Journal article – Annual report year: 2006

3-D electromagnetic induction studies using the Swarm constellation: Mapping conductivity anomalies in the Earth's mantle

Kuvshinov, A., Sabaka, T. & Olsen, N. 2006 In : *Earth Planets and Space*. 58, 4, p. 417-427

Publication: Research - peer-review › Journal article – Annual report year: 2006

A 1-D mantle conductivity derived from CHAMP, Ørsted, and SAC-C magnetic data

Kuvshinov, A. & Olsen, N. 2006 *Proceedings of the First International Swarm Science Meeting*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

A global model of mantle conductivity derived from 5 years of CHAMP, Orsted, and SAC-C magnetic data

Kuvshinov, A. & Olsen, N. 2006 In : *Geophysical Research Letters*. 33, 18

Publication: Research - peer-review › Journal article – Annual report year: 2006

A magnetometer for the Solar Orbiter Mission

Carr, C. M., Horbury, T. S. & Vennerstrøm, S. 2006 *Proceedings Solar Orbiter Mission Conference*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

A new approach to directly determine the secular variation from magnetic satellite observations

Mandea, M. & Olsen, N. 2006 In : *Geophysical Research Letters*. 33, 15

Publication: Research - peer-review › Journal article – Annual report year: 2006

CHAOS-a model of the Earth's magnetic field derived from CHAMP, Orsted, and SAC-C magnetic satellite data

Olsen, N., Luhr, H., Sabaka, T. J., Mandea, M., Rother, M., Tofner-Clausen, L. & Choi, S. 2006 In : *Geophysical Journal International*. 166, 1, p. 67-75

Publication: Research - peer-review › Journal article – Annual report year: 2006

Climatologies of nighttime upper thermospheric winds measured by ground-based Fabry-Perot interferometers during geomagnetically quiet conditions: 2. High-latitude circulation and interplanetary magnetic field dependence

Emmert, J. T., Hernandez, G., Jarvis, M. J., Niciejewski, R. J., Sipler, D. P. & Vennerstrøm, S. 2006 In : *Journal of Geophysical Research-space Physics*. 111, A12

Publication: Research - peer-review › Journal article – Annual report year: 2006

Constraining the composition and thermal state of the mantle beneath Europe from inversion of long-period electromagnetic sounding data

Khan, A., Connolly, J. A. D. & Olsen, N. 2006 In : *Journal of Geophysical Research-solid Earth*. 111, B10

Publication: Research - peer-review › Journal article – Annual report year: 2006

Constraining the Composition and Thermal State of the Moon from an Inversion of Electromagnetic Lunar Day-Side Transfer Functions

Connolly, J. A. D., Khan, A., Olsen, N. & Mosegaard, K. 2006 *Proceedings of the 37th Annual Lunar and Planetary Science Conference*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Core surface flow modelling from high-resolution secular variation

Holme, R. & Olsen, N. 2006 In : *Geophysical Journal International*. 166, 2, p. 518-528

Publication: Research - peer-review › Journal article – Annual report year: 2006

Cosmic rays and the biosphere over 4 billion years

Svensmark, H. 2006 In : *Astronomische Nachrichten*. 327, 9, p. 871-875

Publication: Research - peer-review › Journal article – Annual report year: 2006

Des éclairs aux frontières de l'espace

Valin, M., Sentman, D., Blanc, E., Soula, S. & Chanrion, O. A. 2006 In : *Ciel et Espace*. 433

Publication: Communication › Journal article – Annual report year: 2006

Earth's lithospheric magnetic field determined to spherical harmonic degree 90 from CHAMP satellite measurements

Maus, S., Rother, M., Hemant, K., Stolle, C., Luhr, H., Kuvshinov, A. & Olsen, N. 2006 In : *Geophysical Journal International*. 164, 2, p. 319-330

Publication: Research - peer-review › Journal article – Annual report year: 2006

Enhancing comprehensive inversions using the Swarm constellation

Sabaka, T. J. & Olsen, N. 2006 In : *Earth Planets and Space*. 58, 4, p. 371-395

Publication: Research - peer-review › Journal article – Annual report year: 2006

Excitation and ionisation of the atmosphere by streamers

Chanrion, O. A., Enel, C-F. & Neubert, T. 2006

Publication: Research - peer-review › Poster – Annual report year: 2006

Field-aligned and ionospheric currents and convection electric fields in the polar ionosphere

Vennerstrøm, S., Moretto, T. & Olsen, N. 2006 *Proceedings of the First International Swarm Science Meeting, ESA WPP*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Field-aligned currents and convection electric fields in the polar ionosphere

Vennerstrøm, S., Moretto, T. & Olsen, N. 2006 *Proceedings of the 1st Swarm International Science meeting*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

High resolution lithospheric field recovery using gradient data within a CM framework as applied to the Swarm mission simulation

Sabaka, T. J., Olsen, N. & Gaya-Pique, L. R. 2006 *Proceedings of the First International Swarm Science Meeting, ESA WPP*. Vol. 261

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Imprint of Galactic dynamics on Earth's climate

Svensmark, H. 2006 In : *Astronomische Nachrichten*. 327, 9, p. 866-870

Publication: Research - peer-review › Journal article – Annual report year: 2006

Improvements of geomagnetic field models made during the first years of the "International Decade"

Olsen, N. 2006 *Proceedings of the First International Swarm Science Meeting, ESA WPP*. Vol. 261

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

ISAC WP300 and WP 400: Data Interpretation and Quantification of global climate modulations

Marsh, N., Svensmark, H., Christiansen, F. & Bondo, T. 2006

Publication: Research › Report – Annual report year: 2006

Landing på Titan

Pedersen, J. O. P. 2006 In : *Kvant*.

Publication: Research - peer-review › Journal article – Annual report year: 2006

Low-latitude magnetic disturbances caused by field-aligned currents connected to the polar region

Vennerstrøm, S., Christiansen, F., Moretto, T. & Olsen, N. 2006 *Proceedings of the First International Swarm Science Meeting, ESA WPP*. Vol. 261

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Magnetic diffusion patches at the top of the Earth's core

Chulliat, A., Olsen, N. & Sabaka, T. 2006 *Proceedings of the First International Swarm Science Meeting*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Modeling and analysis of solar wind generated contributions to the near-Earth magnetic field

Vennerstrøm, S., Moretto, T., Rastatter, L. & Raeder, J. 2006 In : *Earth Planets and Space*. 58, 4, p. 451-461

Publication: Research - peer-review › Journal article – Annual report year: 2006

Polar ionospheric current systems: comparing global MHD simulation results with observations from Ørsted and CHAMP
Moretto, T., Vennerstrøm, S., Olsen, N., Rastätter, L. & Raeder, J. 2006 *Proceedings of the First International Swarm Science Meeting, ESA*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Reducing the Backus effect using Backus' constraints

Chulliat, A., Olsen, N. & Sabaka, T. 2006 *Proceedings of the First International Swarm Science Meeting*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Report on the Workshop "Swarm in Space PHYSICS"

Knudsen, D. J., Vennerstrøm, S., Moretto, T. & Lühr, H. 2006 *Proceedings of 1st Swarm International Science meeting*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

The Lunar Magnetic Field Environment: Interpretation of New Maps of the Internal and External Fields, Extended abstract no. 1993

Purucker, M. E., Sabaka, T. J., Halekas, J., Olsen, N., Tsyganenko, N. & Hood, L. L. 2006 *Proceedings of the 37th Annual Lunar and Planetary Science Conference*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

The Planetary rate of sprite events

Ignaccolo, M., Farges, T., Mika, A., Allin, T. H., Chanrion, O. A., Blanc, E., Neubert, T. & C., A. 2006

Publication: Research - peer-review › Poster – Annual report year: 2006

The Swarm End-to-End mission simulator study: A demonstration of separating the various contributions to Earth's magnetic field using synthetic data

Olsen, N., Haagmans, R., Sabaka, T. J., Kuvshinov, A., Maus, S., Purucker, M. E., Rother, M., Lesur, V. & Manda, M. 2006 In : *Earth Planets and Space*. 58, 4, p. 359-370

Publication: Research - peer-review › Journal article – Annual report year: 2006

Udforskning af Jordens magnetfelt fra rummet - Ørsted-satellitten og dens efterfølger

Fox Maule, C. & Olsen, N. 2006 In : *Naturens Verden*. 89, 11/12, p. 48-55

Publication: Communication › Journal article – Annual report year: 2006

Using global magnetospheric models for simulation and interpretation of Swarm external field measurements

Moretto, T., Vennerstrøm, S., Olsen, N., Rastätter, L. & Raeder, J. 2006 In : *Earth Planets and Space*. 58, 4, p. 439-449

Publication: Research - peer-review › Journal article – Annual report year: 2006

3-D modelling of the magnetic fields due to ocean tidal flow.

Kuvshinov, A. & Olsen, N. 2005 *Earth Observation with CHAMP: Results from Three Years in Orbit*. Reigber, C., Lühr, H., Schwintzer, P. & Wickert, J. (eds.). Springer Verlag

Publication: Research - peer-review › Book chapter – Annual report year: 2005

Characterization of Pixelated CdZnTe(CdTe) detectors for the Miniature X- and Gamma-ray sensor on ASIM

Kuvvetli, I., Budtz-Jørgensen, C., Spilde, A., Østergaard, N., Berlenga, A. R. & Neubert, T. 2005

Publication: Research - peer-review › Poster – Annual report year: 2005

Consideration of External and Induced Contributions in Geomagnetic Field Modeling: Present Concepts and Future Prospects

Olsen, N. 2005

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2005

Constraining the Composition of the Earth from Long-period Electromagnetic Sounding of the Lower Mantle

Khan, A., Connolly, J. & Olsen, N. 2005

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2005

Cosmic rays and climate - the missing link

Pedersen, J. O. P. 2005

Publication: Research › Conference abstract for conference – Annual report year: 2005

Experimental investigation of aerosols produced by cosmic rays

Enghoff, M. A. B. 2005

Publication: Research › Paper – Annual report year: 2005

Experimental Investigation of Aerosols Produced by Cosmic Rays

Pedersen, J. O. P., Enghoff, M. A. B., Svensmark, H. & Marsh, N. D. 2005

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2005

Experimental Investigation of Aerosols Produced by Cosmic Rays

Pedersen, J. O. P., Enghoff, M. A. B., Marsh, N. D., Uggerhøj, U. & Svensmark, H. 2005

Publication: Research › Poster – Annual report year: 2005

Field-aligned currents during northward IMF: Morphology and causes

Vennerstrøm, S., Moretto, T., Rastätter, L. & Raeder, J. 2005 In : Journal of Geophysical Research. 110

Publication: Research - peer-review › Journal article – Annual report year: 2005

Field-aligned currents during northward interplanetary magnetic field: Morphology and causes

Vennerstrøm, S., Moretto, T., Rastatter, L. & Raeder, J. 2005 In : Journal of Geophysical Research-space Physics. 110, A6

Publication: Research - peer-review › Journal article – Annual report year: 2005

Geostatistical methods applied to field model residuals

Maule, F., Mosegaard, K. & Olsen, N. 2005

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2005

Geothermal Heat Flux Underneath Ice Sheets Estimated From Magnetic Satellite Data

Fox Maule, C., Purucker, M. E., Olsen, N. & Mosegaard, K. 2005

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2005

Heat flux anomalies in Antarctica revealed from satellite magnetic data

Maule, C. F., Purucker, M. E., Olsen, N. & Mosegaard, K. 2005 In : Science. 309, 5733, p. 464-467

Publication: Research - peer-review › Journal article – Annual report year: 2005

How important are external and induced contributions to the quiet-time geomagnetic field?

Olsen, N. 2005

Publication: Research › Sound/Visual production (digital) – Annual report year: 2005

Improvements of geomagnetic field models made during the first years of the International Decade

Olsen, N., Lühr, H., Sabaka, T., Tøffner-Clausen, L. & Kuvshinov, A. 2005

Publication: Research › Sound/Visual production (digital) – Annual report year: 2005

Ionospheric and induced field leakage in geomagnetic field models, and derivation of candidate models for DGRF 1995 and DGRF 2000

Olsen, N., Lowes, F. & Sabaka, T. J. 2005 In : Earth Planets and Space. 57, 12, p. 1191-1196

Publication: Research - peer-review › Journal article – Annual report year: 2005

ISAC Identification of Relevant Data: Earth's Climate

Marsh, N., Svensmark, H. & Christiansen, F. 2005 (ISAC TN-WP203/ESA).

Publication: Research - peer-review › Report – Annual report year: 2005

ISAC Identification of Relevant Data: Possible Interactions and Modifications

Marsh, N., Svensmark, H. & Christiansen, F. 2005 (ISAC TN-WP202/ESA).

Publication: Research - peer-review › Report – Annual report year: 2005

ISAC Literature Study: Climate Variability Correlated with Solar Activity

Marsh, N., Svensmark, H. & Christiansen, F. 2005 (ISAC TN-WP103/ESA).

Publication: Research - peer-review › Report – Annual report year: 2005

Long Lived Martian Geoscience Observatory

Lognonné, P., Spohn, T., Breuer, D., Christensen, U., Igel, H., Dehant, V., van Hoolst, T., Giardini, D., Primdahl, F., Merayo, J. M. G., Vennerstrøm, S., Garcia, R., Wiczorek, M., Sotin, C., Mocquet, A., Langlais, B., Berthelier, J. J., Menvielle, M., Pais, A., Pike, W. T., Szarka, L. & van den Berg, A. 2005 *Proc. 39th ESLAB Symposium*,.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Magnetic crustal thickness in Greenland from CHAMP and Ørsted data

Maule, C. F., Purucker, M. E. & Olsen, N. 2005 *Earth Observation with CHAMP: Results from Three Years in Orbit*. Berlin: Springer Berlin / Heidelberg, p. 255-260

Publication: Research - peer-review › Book chapter – Annual report year: 2005

Magnetic Fields Induced in the Solid Earth and Oceans

Kuvshinov, A. & Olsen, N. 2005

Publication: Research › Paper – Annual report year: 2005

Mantle conductivity obtained by 3-D inversion of magnetic satellite data: An approach and its validation

Kuvshinov, A. & Olsen, N. 2005

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2005

Modelling the ocean effect of geomagnetic storms at ground and satellite altitude

Kuvshinov, A. & Olsen, N. 2005 *Earth Observation with CHAMP, Results from Three Years in Orbit*. Reigber, C., Lühr, H., Schwintzer, P. & Wickert, J. (eds.). Springer Verlag

Publication: Research - peer-review › Book chapter – Annual report year: 2005

New Ion-Nucleation Mechanism Relevant for the Earth's Atmosphere: Interpreting the Physics

Marsh, N. D., Svensmark, H., Pedersen, J. O. P., Enghoff, M. A. B. & Uggerhøj, U. I. 2005

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2005

New Ion-Nucleation Mechanism Relevant for the Earth's Atmosphere: Experimental Set-up

Enghoff, M. A. B., Svensmark, H., Pedersen, J. O. P., Marsh, N. D. & Uggerhøj, U. 2005

Publication: Research › Conference abstract for conference – Annual report year: 2005

New Ion-Nucleation Mechanism Relevant for the Earth's Atmosphere: Experimental Data

Pedersen, J. O. P., Svensmark, H., Marsh, N. D., Enghoff, M. A. B. & Uggerhøj, U. 2005

Publication: Research › Conference abstract for conference – Annual report year: 2005

New parameterization of external and induced fields in geomagnetic field modeling, and a candidate model for IGRF 2005

Olsen, N., Sabaka, T. J. & Lowes, F. 2005 In : *Earth Planets and Space*. 57, 12, p. 1141-1149

Publication: Research - peer-review › Journal article – Annual report year: 2005

Ørsted's efterfølgere skal flyve i flok

Olsen, N. & Hartung, R. 2005 In : *Dansk Rumfart*.

Publication: Communication › Journal article – Annual report year: 2005

Satellite induction studies in the presence of nonuniform oceans, and accounting for an asymmetric magnetospheric ring current

Kuvshinov, A. & Olsen, N. 2005

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2005

Satellite Magnetic Residuals Investigated With Geostatistical Methods

Fox Maule, C., Mosegaard, K. & Olsen, N. 2005 *WOMEN IN PHYSICS: 2nd IUPAP International Conference on Women in Physics. AIP Conference Proceedings*. Vol. 795, p. 209-209

Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2005

Simulation of streamer initiation using a Particle in Cell code with Monte Carlo Collisions: Application to Sprite ignition.

Chanrion, O. A. & Neubert, T. 2005

Publication: Research › Poster – Annual report year: 2005

Spritewatch tutorial for the eurosprite 2005 observational campaign

Chanrion, O. A. 2005 (CAL network internal report).

Publication: Research - peer-review › Report – Annual report year: 2005

Subionospheric VLF signatures and their association with sprites observed during EuroSprite 2003

Mika, A., Haldoupis, C., Marshall, R. A., Neubert, T. & Inan, U. S. 2005 In : *Journal of Atmospheric and Solar-terrestrial Physics*. 67, 16, p. 1580-1597

Publication: Research - peer-review › Journal article – Annual report year: 2005

Swarm magnetic field models and other derived data

Olsen, N. 2005

Publication: Research › Conference abstract for conference – Annual report year: 2005

Tests of the frozen-flux and tangentially geostrophic assumptions using magnetic satellite data

Chulliat, A., Olsen, N. & Sabaka, T. 2005

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2005

The 10th generation international geomagnetic reference field

Maus, S., Macmillan, S., Chernova, T., Choi, S., Dater, D., Golovkov, V., Lesur, V., Lowes, F., Luehr, H., Mai, W., McLean, S., Olsen, N., Rother, M., Sabaka, T., Thomson, A. & Zvereva, T. 2005 In : *Geophysical Journal International*. 161, p. 561-565

Publication: Research - peer-review › Journal article – Annual report year: 2005

The spectrum of the magnetic secular variation

Holme, R. & Olsen, N. 2005 *Earth Observation with CHAMP, Results from Three Years in Orbit*. Reigber, C., Lühr, H., Schwintzer, P. & Wickert, J. (eds.). Springer Verlag

Publication: Research - peer-review › Book chapter – Annual report year: 2005

3-D modelling of the magnetic fields due to ocean tidal flow

Kuvshinov, A. & Olsen, N. 2004 *Proceedings of the 2nd CHAMP Science Meeting*. Reigber, C., Lühr, H. & Schwinzer, P. (eds.). Springer Verlag

Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

A more realistic estimate of the variances and systematic errors in spherical harmonic geomagnetic field models

Lowes, F. J. & Olsen, N. 2004 In : *Geophysical Journal International*. 157, 3, p. 1027-1044

Publication: Research - peer-review › Journal article – Annual report year: 2004

Comment on "Solar influences on cosmic rays and cloud formation: A reassessment" by Bomin Sun and Raymond S. Bradley

Marsh, N. & Svensmark, H. 2004 In : *Journal of Geophysical Research-atmospheres*. 109, D14

Publication: Research - peer-review › Journal article – Annual report year: 2004

Extending comprehensive models of the Earth's magnetic field with Orsted and CHAMP data

Sabaka, T. J., Olsen, N. & Purucker, M. E. 2004 In : *Geophysical Journal International*. 159, 2, p. 521-547

Publication: Research - peer-review › Journal article – Annual report year: 2004

Mælkevejens magtfulde stråling

Lauritsen, S. N. & Svensmark, H. 2004 In : *Københavns Universitets Almanak*.

Publication: Communication › Journal article – Annual report year: 2004

Magnetic crystal thickness in Greenland from CHAMP and Ørsted data

Maule, C. F., Purucker, M. E. & Olsen, N. 2004 *Proceedings of the 2nd CHAMP Science Meeting*. Reigber, C., Lühr, H. & Schwinzer, P. (eds.). Springer Verlag

Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Modeling the ocean effect of geomagnetic storms

Olsen, N. & Kuvshinov, A. 2004 In : *Earth Planets and Space*. 56, 5, p. 525-530

Publication: Research - peer-review › Journal article – Annual report year: 2004

Modelling the ocean effect of geomagnetic storms at ground and satellite altitude

Kuvshinov, A. & Olsen, N. 2004 *Proceedings of the 2nd CHAMP Science Meeting*. Reigber, C., Lühr, H. & Schwinzer, P. (eds.). Springer Verlag

Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Vintergatens mægtige stråling

Svensmark, H. & Lauritsen, S. N. 2004 In : *Ymer*.

Publication: Communication › Journal article – Annual report year: 2004

A realistic estimate of the variances of the Ørsted OSVM (Ørsted 10b/01) spherical harmonic field model

Lowes, F. J. & Olsen, N. 2003 *OIST-4 Proceedings*. Stauning, P. (ed.).

Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Calibration of the Ørsted vector magnetometer

Olsen, N., Tøffner-Clausen, L., Sabaka, T. J., Brauer, P., Merayo, J. M. G., Jørgensen, J. L., Leger, J. M., Nielsen, O. V., Primdahl, F. & Risbo, T. 2003 In : *Earth Planets and Space*. 55, 1, p. 11-18

Publication: Research - peer-review › Journal article – Annual report year: 2003

CO2: A CHAMP magnetic field model

Holme, R., Olsen, N., Rother, M. & Lühr, H. 2003 *Proceedings of the First CHAMP Science Meeting*. Reigber, C., Lühr, H. & Schwintzer, P. (eds.). Springer Verlag

Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Comprehensive modelling of the Earth's magnetic field: Current status and future prospects

Sabaka, T. & Olsen, N. 2003 *OIST-4 Proceedings*. Stauning, P. (ed.).

Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Design, calibration and testing of precise magnetometers

Primdahl, F., Merayo, J. M. G., Brauer, P. & Risbo, T. 2003 *Proceedings of IEEE Sensors, 2003.. IEEE*, Vol. 1

Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Field-Aligned Current Patterns in the Polar Cap Region During Northward IMF Derived by AMIE

Stampe, A. M., Friis-Christensen, E., Vennerstrøm, S. & Olsen, N. 2003

Publication: Research › Poster – Annual report year: 2003

Galactic cosmic ray and El Nino Southern Oscillation trends in International Satellite Cloud Climatology Project D2 low-cloud properties

Marsh, N. & Svensmark, H. 2003 In : *Journal of Geophysical Research-atmospheres*. 108, D6

Publication: Research - peer-review › Journal article – Annual report year: 2003

How have Ørsted, CHAMP, and SAC-C improved our knowledge of the oceanic regions

Purucker, M., Sabaka, T., Olsen, N. & Maus, S. 2003 *OIST-4 Proceedings*. Stauning, P. (ed.).

Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Improving the definition of cratonic boundaries utilizing the lithospheric magnetic field derived from CHAMP observations

Purucker, M. & Olsen, N. 2003 *Proceedings of the First CHAMP Science Meeting*. Reigber, C., Lühr, H. & Schwintzer, P. (eds.). Springer Verlag

Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Ionospheric currents from CHAMP magnetic field data - comparison with ground based measurements

Ritter, P., Viljanen, A., Lühr, H., Amm, A. & Olsen, N. 2003 *Proceedings of the First CHAMP Science Meeting*. Reigber, C., Lühr, H. & Schwintzer, P. (eds.). Springer Verlag

Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Modeling of the Earth's magnetic field and its variations with Oersted, CHAMP, and Oersted-2/SAC-C

Purucker, M. & Olsen, N. 2003 *OIST-4 Proceedings*. Stauning, P. (ed.).

Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Monitoring magnetospheric contributions using ground-based and satellite magnetic data

Olsen, N., Vennerstrøm, S. & Friis-Christensen, E. 2003 *Proceedings of the First CHAMP Science Meeting*. Reigber, C., Lühr, H. & Schwintzer, P. (eds.). Springer Verlag

Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Ørsted Pre-Flight Magnetometer Calibration Mission

Risbo, T., Brauer, P., Merayo, J. M. G., Nielsen, O. V., Petersen, J. R. & Primdahl, F. 2003 In : *Measurement Science and Technology*. 14, 5, p. 674-688

Publication: Research - peer-review › Journal article – Annual report year: 2003

Possibilities of re-analysis of old satellite data

Jackson, A. & Olsen, N. 2003 *OIST-4 Proceedings*. Stauning, P. (ed.).

Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Reply to Comment on 'Scalar calibration of vector magnetometers' by V.G.Semenov

Merayo, J. M. G., Brauer, P., Primdahl, F., Petersen, J. R. & Nielsen, O. V. 2003 In : *Measurement Science & Technology*. 14, 2, p. 238-238

Publication: Research - peer-review › Journal article – Annual report year: 2003

Solar influence on Earth's climate

Marsh, N. & Svensmark, H. 2003 In : *Space Science Reviews*. 107, 1-2, p. 317-325

Publication: Research - peer-review › Journal article – Annual report year: 2003

Solen i udbrud

Linden-Vørnle, M. J. D. & Pedersen, J. O. P. 2003 In : *Kvant*. 14, 4, p. 28

Publication: Communication › Journal article – Annual report year: 2003

SWARM - A Constellation to Study the Dynamics of the Earth's Magnetic Field and its Interactions with the Earth System

Thomsen, P. L., Hansen, F., Olsen, N. & Friis-Christensen, E. 2003

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2003

The 9th generation international geomagnetic reference field

Macmillan, S., Maus, S., Bondar, T., Chambodut, A., Golovkov, V., Holme, R., Langlais, B., Lesur, V., Lowes, F., Lühr, H., Mai, W., Manda, M., Olsen, N., Rother, M., Sabaka, T., Thomson, A. & Wardinski, I. 2003 In : *Geophysical Journal International*. 155, 3, p. 1051-1056

Publication: Research - peer-review › Journal article – Annual report year: 2003

The magnetic field in the pile-up region at Mars, and its variation with the solar wind

Vennerstrøm, S., Olsen, N., Purucker, M., Acuna, M. H. & Cain, J. C. 2003 In : Geophysical Research Letters. 30, 7
Publication: Research - peer-review › Journal article – Annual report year: 2003

The NetLander/MagNet Experiment

Menvielle, M., Primdahl, F., Bauer, P., Jensen, P. A., Merayo, J. M. G., Bertellier, J. J., Breuer, D., Chanteur, G., Mandea, M., Magnes, W., Musmann, G., Pajunpää, K., Pincon, J. L., Schwingenschuh, K., Szarka, L. & Vennerstrøm, S. 2003
OIST-4 Proceedings. Stauning, P. (ed.). p. 301-304
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Winds in the high-latitude lower thermosphere: Dependence on the interplanetary magnetic field

Richmond, A. D., Lathuillere, C. & Vennerstrøm, S. 2003 In : Journal of Geophysical Research-space Physics. 108, A2
Publication: Research - peer-review › Journal article – Annual report year: 2003

A comprehensive model of the quiet-time, near-Earth magnetic field: phase 3

Sabaka, T. J., Olsen, N. & Langel, R. A. 2002 In : Geophysical Journal International. 151, 1, p. 32-68
Publication: Research - peer-review › Journal article – Annual report year: 2002

A model of the geomagnetic field and its secular variation for epoch 2000 estimated from Orsted data

Olsen, N. 2002 In : Geophysical Journal International. 149, 2, p. 454-462
Publication: Research - peer-review › Journal article – Annual report year: 2002

Determining the direction of a geometrical/optical reference axis in the coordinate system of a triaxial magnetometer sensor

Primdahl, F., Brauer, P., Merayo, J. M. G., Petersen, J. R. & Risbo, T. 2002 In : Measurement Science & Technology. 13, 12, p. 2094-2098
Publication: Research - peer-review › Journal article – Annual report year: 2002

Electromagnetic induction in the oceans and the anomalous behaviour of coastal C-responses for periods up to 20 days

Kuvshinov, A. V., Olsen, N., Avdeev, D. B. & Pankratov, O. V. 2002 In : Geophysical Research Letters. 29, 12
Publication: Research - peer-review › Journal article – Annual report year: 2002

Field-aligned currents in the dayside cusp and polar cap region during northward IMF

Vennerstrøm, S., Moretto, T., Olsen, N., Friis-Christensen, E., Stampe, A. M. & Watermann, J. F. 2002 In : Journal of Geophysical Research-space Physics. 107, A8
Publication: Research - peer-review › Journal article – Annual report year: 2002

Fine structure of sprites and proposed global observations

Mende, S. B., Frey, H. U., Rairden, R., Su, H. T., Hsu, R. R., Allin, T. H., Neubert, T., Gerken, E. A. & Inan, U. S. 2002
Space weather study using multipoint techniques. Liu, L. H. (ed.). Elsevier Science, p. 275-282 (COSPAR Colloquia Series, Vol. 14).
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

First scalar magnetic anomaly map from CHAMP satellite data indicates weak lithospheric field

Maus, S., Rother, M., Holme, R., Lühr, H., Olsen, N. & Haak, V. 2002 In : Geophysical Research Letters. 29, 14
Publication: Research - peer-review › Journal article – Annual report year: 2002

Highlights from AGU's virtual session on new magnetic field satellites

Purucker, M., McCreadie, M., Ganero, E., Lühr, H., Olsen, N., Hulot, G. & Vennerstrøm, S. 2002 In : EOS Transactions. 83, 34
Publication: Research - peer-review › Journal article – Annual report year: 2002

Improving global crustal temperature, geologic variation and lithospheric strength models utilising the lithospheric magnetic field derived from CHAMP

Purucker, M., Olsen, N., Ravat, D., Schwintzer, P. & Langlais, B. 2002

Publication: Research › Sound/Visual production (digital) – Annual report year: 2002

Investigating the auroral electrojets with low altitude polar orbiting satellites

Moretto, T., Olsen, N., Ritter, P. & Lu, G. 2002 In : *Annales Geophysicae*. 20, 7, p. 1049-1061

Publication: Research - peer-review › Journal article – Annual report year: 2002

Monitoring the magnetic signature of the magnetospheric ring-current with Ørsted-2/SAC-C

Olsen, N., Friis-Christensen, E. & Vennerstrøm, S. 2002

Publication: Research › Sound/Visual production (digital) – Annual report year: 2002

New approaches to explore the Earth's magnetic field

Olsen, N., Moretto, T. & Friis-Christensen, E. 2002 In : *Journal of Geodynamics*. 33, 1-2, p. 29-41

Publication: Research - peer-review › Journal article – Annual report year: 2002

New parametrisation of chemical effects of sprites in the middle atmosphere,

Enell, C. F., Arnone, E., Adachi, T., Chanrion, O. A., Verronen, P. T., Seppala, A., Neubert, T., Ulich, T., Turunen, E., Takahashi, Y. & Hsu, R. 2002 In : *Annales Geophysicae*.

Publication: Research - peer-review › Journal article – Annual report year: 2002

Small-scale structure of the geodynamo inferred from Ørsted and Magsat satellite data

Hulot, G., Eymin, C., Langlais, B., Mandea, M. & Olsen, N. 2002 In : *Nature*. 416, 6881, p. 620-623

Publication: Research - peer-review › Journal article – Annual report year: 2002

The southern edge of cratonic North America: Evidence from new magnetic satellite observations

Purucker, M., Mandea, M., Hulot, G., Olsen, N. & Langlais, B. 2002 In : *Geophysical Research Letters*. 29, 15

Publication: Research - peer-review › Journal article – Annual report year: 2002

The southern edge of cratonic North America: Evidence from new satellite magnetometer observations

Purucker, M., Langlais, B., Olsen, N., Hulot, G. & Mandea, M. 2002 In : *Geophysical Research Letters*. 29, 9

Publication: Research - peer-review › Journal article – Annual report year: 2002

The spinning Astrid-2 satellite used for modeling the Earth's main magnetic field

Merayo, J. M. G., Jørgensen, P. S., Risbo, T., Brauer, P., Primdahl, F. & Cain, J. 2002 In : *IEEE Transactions on Geoscience and Remote Sensing*. 40, 4, p. 898-909

Publication: Research - peer-review › Journal article – Annual report year: 2002

An improved method of inferring interplanetary sector structure, 1905-present

Vennerstrøm, S., Zieger, B. & Friis-Christensen, E. 2001 In : *Journal of Geophysical Research-space Physics*. 106, A8, p. 16011-16020

Publication: Research - peer-review › Journal article – Annual report year: 2001

A Portable Single Axis Magnetic Gradiometer

Merayo, J. M. G., Petersen, J. R., Nielsen, O. V., Primdahl, F. & Brauer, P. 2001 In : *Sensors and Actuators A: Physical*. 93, 3, p. 185-196

Publication: Research - peer-review › Journal article – Annual report year: 2001

Contribution to continuous magnetic recordings onboard the BepiColombo Mercury Lander

Menville, M., Brauer, P., Kunke, F., Merayo, J. M. G., Magnes, W., Musmann, G., Olsen, N., Primdahl, F. & Schwingenschuh, K. 2001 *EGS Newsletter No. 78*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

ENSO and cosmic rays

Marsh, N. D. & Svensmark, H. 2001 In : *Journal of Geophysical Research*.

Publication: Research - peer-review › Journal article – Annual report year: 2001

Global lithospheric magnetization model validated and refined using new satellite observations

Purucker, M. E., Langlais, B., Hulot, G., Manda, M. & Olsen, N. 2001

Publication: Research - peer-review › Poster – Annual report year: 2001

IMF By-Related Cusp Currents Observed from the Ørsted Satellite and from Ground

Stauning, P., Primdahl, F., Watermann, J. & Rasmussen, O. 2001 In : Geophysical Research Letters. 28, 1, p. 99-102

Publication: Research - peer-review › Journal article – Annual report year: 2001

Interplanetary sources of magnetic storms: A statistical study

Vennerstrøm, S. 2001 In : Journal of Geophysical Research-space Physics. 106, A12, p. 29175-29184

Publication: Research - peer-review › Journal article – Annual report year: 2001

Interplanetary sources to magnetic storms - A statistical study

Vennerstrøm, S. 2001 In : Journal of Geophysical Research. 106, A12, p. 29175-29184

Publication: Research - peer-review › Journal article – Annual report year: 2001

Modelling electromagnetic fields in 3D spherical Earth using fast integral equation approach

Kuvshinov, A. V., Avdeev, D. B., Pankratov, O. V., Golyshev, S. A. & Olsen, N. 2001 In : 3D Electromagnetics.

Publication: Research - peer-review › Journal article – Annual report year: 2001

Ørsted og Jordens magnetfelt - satellitten der ser Jordens kerne

Olsen, N. & Stampe, M. 2001 In : Geologisk Nyt. 3, p. 4-6

Publication: Communication › Journal article – Annual report year: 2001

Solens indflydelse på Jordens klima

Svensmark, H. 2001 In : Kvant. 3, p. 4

Publication: Communication › Journal article – Annual report year: 2001

The Orthogonalization of Magnetic Systems

Merayo, J. M. G., Primdahl, F., Brauer, P., Risbo, T., Olsen, N. & Sabaka, T. 2001 In : Sensors & Actuators A. 89, 3, p. 185-196

Publication: Research - peer-review › Journal article – Annual report year: 2001

The space-time structure of magnetic variations and their use for electromagnetic induction studies

Olsen, N., Vennerstrøm, S., Grammatica, N. & Purucker, M. 2001

Publication: Research - peer-review › Poster – Annual report year: 2001

Ørsted Initial Field Model

Olsen, N., Holme, R., Hulot, G., Sabaka, T., Neubert, T., Tøffner-Clausen, L., Primdahl, F., Jørgensen, J., Léger, J. M., Barraclough, D., Bloxham, J., Cain, J., Constable, C., Golovkov, V., Jackson, A., Kotzé, P., Langlais, B., Macmillan, S., Manda, M., Merayo, J. M. G., Newitt, L., Purucker, M., Risbo, T., Stampe, M., Thomson, A. & Voorhies, C. 15 Nov 2000 In : Geophysical Research Letters. 27, 22, p. 3607-3610

Publication: Research - peer-review › Journal article – Annual report year: 2000

A comprehensive model of the near-Earth magnetic field: Phase 3

Sabaka, T. J., Olsen, N. & Langel, R. A. 2000 (U.S. National Aeronautics and Space Administration. Technical Memorandum, Vol. NASA/TM-2000-209894).

Publication: Research - peer-review › Report – Annual report year: 2000

Addendum to "The CLOUD proposal"

Svensmark, H. 2000 SPSC/P317 ed. CERN. (Uden navn; No. document no. 030, add. 1).

Publication: Research - peer-review › Report – Annual report year: 2000

A model of the main field and its secular variation for Epoc 2000, estimated from Ørsted data

Olsen, N. 2000

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2000

Annual variation in the interplanetary magnetic field magnitude and its effect on geomagnetic activity

Zieger, B., Vennerstrøm, S. & Mursula, K. 2000

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2000

A proxy for the auroral electrojet from high precision geomagnetic satellite data

Moretto, T. & Olsen, N. 2000

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2000

ATEX - Auroral timing explorer.: Proposal to NASA in response to the Announcement of Opportunity for the SMEX programme

Burch, J. A., Primdahl, F., Brauer, P., Gjerløv, J. W. & Olsen, N. 2000

Publication: Research › Report – Annual report year: 2000

CLOUD: An atmospheric research facility at CERN

Svensmark, H. 2000 SPSC/P317 ed. CERN.

Publication: Research - peer-review › Report – Annual report year: 2000

Contamination of models by ionospheric polar cap currents. A study in data selection

Stampe, A. M., Vennerstrøm, S. & Olsen, N. 2000 *Proceedings of the Ørsted 3rd international science team meeting.*

Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Contribution of magnetic measurements onboard NetLander to Mars exploration

Menvielle, M., Musmann, G., Kuhnke, F., Berthelier, J. J., Glassmeier, K. H., Manda, M. H., Motschmann, U., Pajunpaa, K., Pincon, J. L., Primdahl, F. & Szarka, L. 2000 In : *Planetary and Space Science*. 48, 12-14, p. 1231-1247

Publication: Research - peer-review › Journal article – Annual report year: 2000

Correlation of field-aligned currents derived from Ørsted magnetometer data and polar dayside ionospheric convection patterns

Stauning, P., Primdahl, F., Watermann, J. & Rasmussen, O. 2000 *proceedings of Ørsted 3rd International Science Team Meeting*. Neubert, T. & Ultré-Guérard, P. (eds.).

Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Cosmic rays and Earth's climate

Svensmark, H. 2000 In : *Space Science Reviews*. 93, 1-2, p. 175-185

Publication: Research - peer-review › Journal article – Annual report year: 2000

Cosmic rays, clouds, and climate

Marsh, N. & Svensmark, H. 2000 In : *Space Science Reviews*. 94, 1-2, p. 215-230

Publication: Research - peer-review › Journal article – Annual report year: 2000

Cusp currents observed with Ørsted

Vennerstrøm, S., Moretto, T., Olsen, N., Friis-Christensen, E. & Stampe, A. M. 2000

Publication: Research - peer-review › Poster – Annual report year: 2000

Detection of ionospheric and field-aligned current patterns. A comparison of different methods

Moretto, T., Christiansen, F. & Olsen, N. 2000 *Proceedings of the Ørsted 3rd international science team meeting.*

Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Determination of the IGRF 2000 model

Olsen, N., Sabaka, T. J. & Tøffner-Clausen, L. 2000 In : *Earth Planets and Space*. 52, 12, p. 1175-1182

Publication: Research - peer-review › Journal article – Annual report year: 2000

Developing countries facing global warming; Kyoto and beyond

Svensmark, H. 2000 *Global Warming; Heliogenic?* p. 55-63

Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Field-aligned currents associated with the auroral electrojets

Stampe, M., Vennerstrøm, S., Olsen, N., Moretto, T. & Friis-Christensen, E. 2000

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2000

First detection of global dawn-dusk ionospheric current intensities using Ampère's integral law on Orsted orbits

Stauning, P. & Primdahl, F. 2000 In : *Geophysical Research Letters*. 27, 20, p. 3273-3276

Publication: Research - peer-review › Journal article – Annual report year: 2000

First detection of global dawn-dusk ionospheric current intensities using Ampère's integral law on Ørsted satellite orbits

Stauning, P. & Primdahl, F. 2000 In : *Geophysical Research Letters*. 27, p. 3673-3676

Publication: Research - peer-review › Journal article – Annual report year: 2000

International geomagnetic reference field - 2000

Mandea, M., MacMillan, S., Bondar, T., Golovkov, V., Langlais, B., Lowes, F., Olsen, N., Quinn, J. & Sabaka, T. J. 2000
In : *Physics of the Earth and Planetary Interiors*. 120, 1-2, p. 39-42

Publication: Research - peer-review › Journal article – Annual report year: 2000

International geomagnetic reference field - 2000

Mandea, M., MacMillan, S., Bondar, T., Gorovkov, V., Langlais, B., Lowes, F., Olsen, N., Quinn, J. & Sabaka, T. J. 2000
In : *Geophysical Journal International*. 141, 1, p. 259-262

Publication: Research - peer-review › Journal article – Annual report year: 2000

International geomagnetic reference field - 2000"

Mandea, M., MacMillan, S., Bondar, T., Golovkov, V., Langlais, B., Lowes, F., Olsen, N., Quinn, J. & Sabaka, T. J. 2000
In : *Pure and Applied Geophysics*. 157, p. 1797-1802

Publication: Research - peer-review › Journal article – Annual report year: 2000

Interplanetary magnetic structures: What can be inferred from geomagnetic proxies

Vennerstrøm, S. 2000

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2000

Investigating the auroral electrojet with Ørsted data

Moretto, T. & Olsen, N. 2000 *Proceedings of the Ørsted 3rd international science team meeting*.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Long-term rise in geomagnetic activity - A close connection between quiet days and storms

Vennerstrøm, S. 2000 In : *Geophysical Research Letters*. 27, 1, p. 69-72

Publication: Research - peer-review › Journal article – Annual report year: 2000

Long-term rise in the geomagnetic activity - a close connection between quiet days and storms

Vennerstrøm, S. 2000 In : *Geophysical Research Letters*. 27, p. 69-72

Publication: Research - peer-review › Journal article – Annual report year: 2000

Low cloud properties influenced by cosmic rays

Marsh, N. & Svensmark, H. 2000 In : *Physical Review Letters*. 85, 23, p. 5004-5007

Publication: Research - peer-review › Journal article – Annual report year: 2000

LUGH - Mercury Pathfinder Mission: Proposal submitted to ESA in response to the Announcement of Opportunity for F1/F2 missions

McKenna-Lawlor, S. M. P., Jørgensen, J. L., Brauer, P., Primdahl, F., Vennerstrøm, S., Moretto, T. & Olsen, N. 2000

Publication: Research › Report – Annual report year: 2000

Magnetic fields of high degree measured by Ørsted and their interpretation

Purucker, M. E., Hulot, G., Langlais, B., Manda, M. & Olsen, N. 2000

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2000

North-south asymmetry in the occurrence of toward and away IMF sector polarities

Zieger, B., Mursula, K. & Vennerstrøm, S. 2000

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2000

Reply to comments on "Variation of cosmic ray flux and global cloud coverage - a missing link in solar-climate relationships"

Svensmark, H. & Friis-Christensen, E. 2000 In : Journal of Atmospheric and Solar-terrestrial Physics. 62, 1, p. 79-80

Publication: Research - peer-review › Journal article – Annual report year: 2000

Resolution studies of fluid flow models near the core-mantle boundary through bayesian inversion of geomagnetic data

Rygaard-Hjalsted, C., Mosegaard, K. & Olsen, N. 2000 *Lecture notes in Earth Sciences*. Hansen, P. C., Jacobsen, B. H. & Mosegaard, K. (eds.). Vol. 92

Publication: Research - peer-review › Book chapter – Annual report year: 2000

Resonance magnetometers

Primdahl, F. 2000 *Magnetic Sensors and Magnetometers*. Ripka, P. (ed.). Artech House, p. 267-304

Publication: Research - peer-review › Book chapter – Annual report year: 2000

Scalar Calibration of Vector Magnetometers

Merayo, J. M. G., Brauer, P., Primdahl, F., Petersen, J. R. & Nielsen, O. V. 2000 In : Meas. Sci. Technol.. 11, 2, p. 120-132

Publication: Research - peer-review › Journal article – Annual report year: 2000

Solar wind sources of storms: a statistical study

Vennerstrøm, S. 2000

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2000

Spectral properties of low-frequency electrostatic waves in the ionospheric E-region

Krane, B., Pécseli, H. L., Trulsen, J., Primdahl, F. & Rinnert, K. 2000 In : J.Geophys. Res.. 105, p. 10 585

Publication: Research - peer-review › Journal article – Annual report year: 2000

The CLOUD proposal

Svensmark, H. 2000 SPSC/P317 ed. CERN. (Uden navn; No. document no. 021).

Publication: Research - peer-review › Report – Annual report year: 2000

The near-Earth magnetic satellite missions Ørsted and SAC-C/Ørsted-2, in relation to the Cluster II mission

Moretto, T., Friis-Christensen, E., Gjerløv, J. W., Olsen, N. & Primdahl, F. 2000 *Proceedings of the Cluster II workshop on multiscale, multipoint plasma measurements*. ESA Publications Division, p. 363-366

Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Verbindung zwischen sonnenaktivitet und wolkenbildung finden: Chemie Report, Heft 1/2

Svensmark, H. 2000

Publication: Research - peer-review › Report – Annual report year: 2000

Verdens bedste Ørsted

Friis-Christensen, E. & Olsen, N. 2000 In : Aktuell Astronomi. 2/00

Publication: Communication › Journal article – Annual report year: 2000

Cluster II data analysis: Research project description for proposal to the Danish Natural Science Research Council

Moretto, T., Gjerløv, J. W. & Vennerstrøm, S. 1999

Publication: Research - peer-review › Report – Annual report year: 1999

Dayside magnetic ULF power at high latitudes: A possible long-term proxy for the solar wind velocity?

Vennerstrøm, S. 1999 In : Journal of Geophysical Research-space Physics. 104, A5, p. 10145-10157

Publication: Research - peer-review › Journal article – Annual report year: 1999

Development of large-area CZT-detector systems

Kuvvetli, I., Budtz-Jørgensen, C., Westergaard, N. J. S., Jonasson, P., van Pamelan, M. A., Reglero, V., Eyles, C. J. & Neubert, T. 1999 *Proceedings of SPIE - The International Society for Optical Engineering*. Vol. 3765, 370 p.

Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

Field aligned current experiment in the ionosphere and thermosphere - FACE-IT: proposal submitted to the Danish Small Satellite Programme

Høeg, P., Primdahl, F., Moretto, T., Rasmussen, J. J., Neubert, T., Olsen, N., Benzon, H. H., Brauer, P., Mortensen, M. D. & Jørgensen, J. L. 1999 Danish Meteorological Institute.

Publication: Research - peer-review › Report – Annual report year: 1999

Induction studies with satellite data

Olsen, N. 1999 In : Surveys in Geophysics. 20, 3-4, p. 309-340

Publication: Research - peer-review › Journal article – Annual report year: 1999

Long-period (30 days-1 year) electromagnetic sounding and the electrical conductivity of the lower mantle beneath Europe

Olsen, N. 1999 In : Geophysical Journal International. 138, 1, p. 179-187

Publication: Research - peer-review › Journal article – Annual report year: 1999

MAGIC: magnetic field, ion and composition investigation on STEREO: Proposal in response to the NASA Announcement of Opportunity, 99-OSS-01

Galvin, A., Brauer, P., Moretto, T., Primdahl, F., Olsen, N. & Vennerstrøm, S. 1999

Publication: Research - peer-review › Report – Annual report year: 1999

PISCES: An investigation to probe the internal structure and composition of Europa by electromagnetic induction sounding: Proposal for the Europa Orbiter Mission

Olsen, N. & Connerney, J. 1999 NASA/Goddard Space Flight Center.

Publication: Research - peer-review › Report – Annual report year: 1999

Polar cap index as a proxy for hemispheric Joule heating

Chun, F. K., Knipp, D. J., McHarg, M. G., Lu, G., Emery, B. A., Vennerstrøm, S. & Troshichev, O. A. 1999 In : Geophysical Research Letters. 26, 8, p. 1101-1104

Publication: Research - peer-review › Journal article – Annual report year: 1999

Solar cycle variations of high-latitude day-side magnetic pulsations and their relationship with the solar wind velocity

Vennerstrøm, S. 1999 In : J. Geophys. Res. Letters. 104, p. 10145

Publication: Research - peer-review › Journal article – Annual report year: 1999

The atmosphere X-ray observatory (AXO): proposal submitted to the Danish Small Satellite Programme

Neubert, T., Stauning, P., Budtz-Jørgensen, C., Gjerløv, J. W., Westergaard, N. J. S., Primdahl, F., Jørgensen, J. L., Forchhammer, S., Larsen, K. & Blanke, M. 1999 Danish Meteorological Institute.

Publication: Research - peer-review › Report – Annual report year: 1999

The face of the sun

Vennerstrøm, S. 1999

Publication: Research - peer-review › Report – Annual report year: 1999

The Spritewatch: A Semi-automatic, remote controlled observation system for transient luminous events

Allin, T. H., Jorgensen, J. L., Neubert, T. & Laursen, S. 1999 In : I E E E Transactions on Magnetism.

Publication: Research - peer-review › Journal article – Annual report year: 1999

Computation of magnetic fields within source regions of ionospheric and magnetospheric currents

Engels, U. & Olsen, N. 1998 In : Journal of Atmospheric and Solar-terrestrial Physics. 60, 16, p. 1585-1592

Publication: Research - peer-review › Journal article – Annual report year: 1998

Geomagnetic research based on SAC-C/MMP: Research project description for proposal to the Danish Natural Science Council

Olsen, N. & Moretto, T. 1998 Danish Space Research Institute.

Publication: Research - peer-review › Report – Annual report year: 1998

Jordens magnetfelt set fra rummet

Moretto, T. & Olsen, N. 1998 In : Kvant. 2

Publication: Communication › Journal article – Annual report year: 1998

MAIDS-1: Magnetic instruments for the diagnostics system: Technology instrument proposal to ESA for the SMART-1 mission

Primdahl, F., Petersen, J. R., Marklund, G., Olsen, N., Brauer, P., Risbo, T. & Ranta, A. 1998 Danish Space Research Institute.

Publication: Research - peer-review › Report – Annual report year: 1998

MAIDS: Magnetic investigation in deep space

Primdahl, F., Petersen, J. R., Marklund, G., Olsen, N., Brauer, P., Risbo, T. & Ranta, A. 1998 Danish Space Research Institute.

Publication: Research - peer-review › Report – Annual report year: 1998

The electrical conductivity of the mantle beneath Europe derived from C-responses from 3 h to 720 h

Olsen, N. 1998 In : Geophysical Journal International. 133, p. 298-308

Publication: Research - peer-review › Journal article – Annual report year: 1998

The influence of solar wind and energy release manifestations on long-term changes in Earth's climate: Funded proposal for the Danish Research Council

Vennerstrøm, S. & Zieger, B. 1998 Danish Space Research Institute.

Publication: Research - peer-review › Report – Annual report year: 1998

Geomagnetic depth sounding with periods between 3 hrs and 1 year and the electrical conductivity of the deep mantle

Olsen, N. 1997 *Proceedings of the Interdisciplinary Inversion Workshop 5*. p. 38-49

Publication: Research - peer-review › Article in proceedings – Annual report year: 1997

Geomagnetic tides and related phenomena

Olsen, N. 1997 *Tidal Phenomena*. Zuern, W. H. & Wenzel, H. G. (eds.). Springer, Vol. 66, p. 261-274 (Lecture Notes in Earth Sciences).

Publication: Research - peer-review › Book chapter – Annual report year: 1997

GRADSAT: A Danish geomagnetic gradient mission

Jørgensen, J. L., Merayo, J. M. G., Blanke, M., Olsen, N., Risbo, T., Primdahl, F. & Lühr, H. 1997 *Proceedings of the Tether Technology Interchange Meeting at NASA Marshall Space Flight Center*. p. 239-252

Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

Ionospheric F-region currents at middle and low latitudes estimated from MAGSAT data

Olsen, N. 1997 In : Journal of Geophysical Research. 102 (A3), p. 4563-4576

Publication: Research - peer-review › Journal article – Annual report year: 1997

The missing dimension in Magsat and POGO anomaly studies

Purucker, M. E., Sabaka, T. J., Langel, R. A. & Olsen, N. 1997 In : *Geophysical Research Letters*. 22, p. 2909-2912
Publication: Research - peer-review › Journal article – Annual report year: 1997

Observations of ionosphere heating in the TSS-1 subsatellite presheath

Katz, I., Mandell, M., Melchioni, E., Oberhardt, M., Thompson, D., Neubert, T., Gilchrist, B. & Bonifazi, C. 1995
Proceedings of the Fourth International Conference on Tethers in Space. Vol. 2, p. 315-330
Publication: Research - peer-review › Article in proceedings – Annual report year: 1995

The use of electron beam experiments on orbiting tethered platforms for remote sensing of E-parallel in the auroral acceleration region: The active magnetospheric particle accelerator satellite (AMPAS)

Habash, L. A., Neubert, T., Gilchrist, B. E. & Raitt, W. J. 1995 *Proceedings of the Fourth International Conference on Tethers in Space*. Vol. 2, p. 1035-1044
Publication: Research - peer-review › Article in proceedings – Annual report year: 1995

Current loop coalescence studied by a 3D, EM particle code

Nishikawa, K-I., Sakai, J-I., Koide, S., Buneman, O. & Neubert, T. 1993 *Proceedings of the Fourth International Conference on Plasma Physics and Controlled Nuclear Fusion*.
Publication: Research - peer-review › Article in proceedings – Annual report year: 1993

Solar wind-magnetosphere interaction as simulated by a 3D, EM particle code

Buneman, O., Neubert, T. & Nishikawa, K-I. 1993 *Proceedings of the Fourth International Conference on Plasma Physics and Controlled Nuclear Fusion*.
Publication: Research - peer-review › Article in proceedings – Annual report year: 1993

Modification of spacecraft charging and the near-plasma environment caused by the interaction of an artificial electron beam with the earth's upper atmosphere

Neubert, T., Banks, P. M., Gilchrist, B. E., Fraser-Smith, A. C., Williamson, P. R., Raitt, W. J., Myers, N. B. & Sasaki, S. 1991 *Proceedings of Spacecraft Charging Technology Conference*. Vol. 2, 18 p.
Publication: Research - peer-review › Article in proceedings – Annual report year: 1991

Plasma density enhancements created by the ionization of the Earth's upper atmosphere by artificial electron beams

Neubert, T. & Banks, P. M. Oct 1990
Publication: Research - peer-review › Paper – Annual report year: 1990

Vacuum and electromagnetic environment measured in SL-1 SEPAC

Kawashima, N., Yanagisawa, M., Sasaki, S., Kuriki, K., Obayashi, T., Neubert, T., Williamson, P. R., Banks, P. M. & Storey, L. R. O. 1985
Publication: Research - peer-review › Paper – Annual report year: 1985

Projects:

GALILEO Arctic TestBed Development and Operations

Høeg, P., Stenseng, L., von Benzon, H., Christiansen, F., Madsen, F. B. & Hansen, O. B.
01/05/2012 → 30/09/2014
Project

Activities:

Global Cooling: Is an Ice Age Coming?

Jens Olaf Pepke Pedersen (Interview person), CBN News, 8 Jan 2014
Activity: Appearance in mass media › Participation in TV Programme

Globale Abkühlung: Steht eine Eiszeit bevor?

Jens Olaf Pepke Pedersen (Participant), EIKE - Europäisches Institut für Klima und Energie, 11 Jan 2014
Activity: Appearance in mass media › Participation in Interview for Web Based Media

CO2-effekten er overvurderet

Jens Olaf Pepke Pedersen (Lecturer), 14 Jan 2014, Plantekongres 2014

Activity: Lecture and oral contribution

Cloud Chamber Mystery: En tur på DTU Space hos Jens Olaf Pepke Pedersen i hans Skylab

Jens Olaf Pepke Pedersen (Interview person), Discovery, 20 Jan 2014 → ...

Activity: Appearance in mass media › Participation in Interview for Web Based Media

Kosmisk Stråling: Universets Gåder

Jens Olaf Pepke Pedersen (Lecturer), 22 Jan 2014

Activity: Lecture and oral contribution

Antarktis: En ekspedition til Antarktis for 100 år siden gik gruelig galt, fornylig blev den forsøgt gentaget.

Jens Olaf Pepke Pedersen (Interview person), TV2 Lorry, 5 Feb 2014

Activity: Appearance in mass media › Participation in TV Programme

De laver skyer under jorden: Forskere fra DTU Space har studeret, hvor stor betydning kosmiske partikler og solens aktivitet har i dannelsen af skyer

Jens Olaf Pepke Pedersen (Interview person), DTU Avisen, 7 Jan 2013

Activity: Appearance in mass media › Participation in Interview for Printed Media

Gasjagten: Skifergas

Jens Olaf Pepke Pedersen (Interview person), SDU Medietorvet, 11 Feb 2013

Activity: Appearance in mass media › Participation in Interview for Web Based Media

Kosmiske Stråler

Jens Olaf Pepke Pedersen (Lecturer), 18 Feb 2013

Activity: Lecture and oral contribution

Russisk meteor skabte højthængede natteskyer

Jens Olaf Pepke Pedersen (Interview person), Ingeniøren, 22 Feb 2013

Activity: Appearance in mass media › Participation in Interview for Web Based Media

En stjerne som nabo: Solstorme og lys fra himlen

Jens Olaf Pepke Pedersen (Lecturer), 25 Feb 2013

Activity: Lecture and oral contribution

4th NICITA Workshop

Jens Olaf Pepke Pedersen (Invited speaker), 12 Mar 2013 → 15 Mar 2013, 4th NICITA Workshop

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Experimental studies of the formation of cluster ions formed by corona discharge in an atmosphere containing SO₂, NH₃, and H₂O

Jens Olaf Pepke Pedersen (Invited speaker), 15 Mar 2013, 4th NICITA Workshop

Activity: Lecture and oral contribution

Kosmisk stråling og El Niño påvirker skyernes højde

Jens Olaf Pepke Pedersen (Interview person), Ingeniøren, 16 Mar 2013

Activity: Appearance in mass media › Participation in Interview for Web Based Media

Kosmoklimatologi - rummets betydning for Jorden

National Space Institute, 11 Apr 2013

Activity: Lecture and oral contribution

Skeptikere vinder terræn i klimadebat

Henrik Svensmark (Participant), Kristeligt Dagblad, 13 Jun 2013

Activity: Appearance in mass media › Participation in Interview for Printed Media

Mikrofonholder - Radio24Syv: Interview af DTU professor Henrik Svensmark

Henrik Svensmark (Interview person), Radio24syv, 27 Jun 2013

Activity: Appearance in mass media › Participation in Radio Programme

»Klimaskeptikeren« møder »klimaalarmisten«: Er befolkningsekspllosionen eller klimaet menneskets største udfordring?

Jens Olaf Pepke Pedersen (Participant), Berlingske Tidende, 13 Oct 2013

Activity: Appearance in mass media › Participation in Interview for Printed Media

Asparges På Mars

Kristoffer Leer (Lecturer), 29 Feb 2012

Activity: Lecture and oral contribution

Månefup eller fakta

Kristoffer Leer (Lecturer), 8 Mar 2012

Activity: Lecture and oral contribution

12th European Vacuum Conference

Jens Olaf Pepke Pedersen (Participant), 5 Jun 2012, 12th European Vacuum Conference

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Mars Curiosity: What can we learn from the new Mars rover and what are the perspectives of space exploration?

Kristoffer Leer (Editor), Radio 24-7, 6 Aug 2012

Activity: Appearance in mass media › Participation in Radio Programme

Asia Oceania Geosciences Society 9th Annual General Meeting

Jens Olaf Pepke Pedersen (Speaker), 17 Aug 2012, Asia Oceania Geosciences Society 9th Annual General Meeting

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Asparges på Mars

Kristoffer Leer (Lecturer), 2 Sep 2012

Activity: Lecture and oral contribution

Gå på opdagelse i solsystemet via mobilen: PlanetCards - Play to discover

Kristoffer Leer (Interview person), Videnskab.dk, 5 Sep 2012

Activity: Appearance in mass media › Participation in Interview for Web Based Media

Asparges På Mars

Kristoffer Leer (Lecturer), 7 Sep 2012

Activity: Lecture and oral contribution

Evidence of nearby supernovae affecting life on Earth

Henrik Svensmark (Lecturer), 4 Oct 2012

Activity: Lecture and oral contribution

Månefup eller fakta

Kristoffer Leer (Lecturer), 4 Oct 2012

Activity: Lecture and oral contribution

Dårligt Nyt

Jens Olaf Pepke Pedersen (Interview person), DR1, 18 Oct 2012

Activity: Appearance in mass media › Participation in TV Programme

At leve med en Stjerne

Kristoffer Leer (Lecturer), 25 Oct 2012

Activity: Lecture and oral contribution

The role of atmospheric ions in aerosol nucleation

Jens Olaf Pepke Pedersen (Lecturer), 2 Nov 2012

Activity: Lecture and oral contribution

Kosmiske Stråler

Jens Olaf Pepke Pedersen (Lecturer), 5 Nov 2012

Activity: Lecture and oral contribution

11. november 1572 kl 19.00

Kristoffer Leer (Lecturer), 17 Nov 2012

Activity: Lecture and oral contribution

Danske forskere studerer skydannelse 1.100 meter under jorden: En engelsk mine har gennem et par år lagt lokaler til et eksperiment, der skal vise, om ioner kan regulere skydannelsen i atmosfæren.

Jens Olaf Pepke Pedersen (Interview person), Ingeniøren, 28 Nov 2012

Activity: Appearance in mass media › Participation in Interview for Printed Media

Underground Synergies with Astro

Jens Olaf Pepke Pedersen (Invited speaker), 17 Dec 2012 → 19 Dec 2012, Underground Synergies with Astro

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

SKY-ZERO @ Boulby: Cosmic rays and climate: What can we learn from the ultra-low radiation environment

Jens Olaf Pepke Pedersen (Lecturer), 19 Dec 2012

Activity: Lecture and oral contribution

Cosmoclimatology

Martin Andreas Bødker Enghoff (Speaker), 1 Jan 2010 → ..., Cosmoclimatology

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Røde feer i atmosfæren

Torsten Neubert (Interview person), 31 Aug 2010

Activity: Appearance in mass media › Participation in Radio Programme

Foredrag "Rummets betydning for klimaet" onsdag den 8. juli 2009 i Ovastovu i Nóatúni med professor Henrik Svensmark, DTU Space: Originaltitel: Fyrilesturin 'Rummets betydning for klimaet' verður mikudagin 8. juli 2009, kl. 19.30 í Ovastovu í Nóatúni, við prof. Henrik Svensmark, DTU Space.

Henrik Svensmark (Lecturer), 3 Jul 2009

Activity: Lecture and oral contribution

Svensmark og hans solteorier er troværdige: Peter Laut mangler forståelse for videnskabelig metode, og derfor er hans forsøg på karaktermord på en lødig forsker forfejlet

Eigil Friis-Christensen (Participant), Information, 31 Oct 2009

Activity: Appearance in mass media › Participation in Interview for Printed Media

Architecture Design Document (ADD) of the Swarm Level 2 Processor

Nils Olsen (Speaker), 1 Jan 2008 → ..., Architecture Design Document (ADD) of the Swarm Level 2 Processor

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

On the Comprehensive Inversion Chain of the Swarm Level 2 Processor

Nils Olsen (Invited speaker), ESTEC Noordwijk/NL, 1 Feb 2008

Activity: Other research and communication activities › External teaching and subject coordination

Kosmoklimatologi

Henrik Svensmark (Speaker), 12 Feb 2008

Activity: Lecture and oral contribution

On the development of the xCHAOS Field Model

Nils Olsen (Speaker), 1 Mar 2008

Activity: Lecture and oral contribution

Time Changes of the Recent Geomagnetic Field as Observed by Satellites

Nils Olsen (Course lecturer), University of Grenoble/F, 1 Mar 2008

Activity: Other research and communication activities › External teaching and subject coordination

On the estimation of C-responses using synthetic Swarm data

Nils Olsen (Course lecturer), ESTEC Noordwijk/NL, 1 Apr 2008

Activity: Other research and communication activities › External teaching and subject coordination

The Swarm satellite constellation mission

Nils Olsen (Participant), GFZ Potsdam/D, 1 Apr 2008

Activity: Other research and communication activities › Other

Exploring the Earth's magnetic field

Nils Olsen (Course lecturer), TU Munich, 1 May 2008

Activity: Other research and communication activities › External teaching and subject coordination

On the Comprehensive Inversion Chain of the Swarm Level 2 Processor

Nils Olsen (Speaker), 1 Jun 2008, On the Comprehensive Inversion Chain of the Swarm Level 2 Processor

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

On the Comprehensive Inversion Chain of the Swarm Level 2 Processor

Lars Tøffner-Clausen (Speaker), 1 Jun 2008, On the Comprehensive Inversion Chain of the Swarm Level 2 Processor

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

On the Input provided to the Swarm L2 Preparation Study

Nils Olsen (Speaker), 1 Aug 2008, On the Input provided to the Swarm L2 Preparation Study

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Internal and External Field Separation

Nils Olsen (Representative), 1 Sep 2008, Internal and External Field Separation

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The Earth's Magnetic Field

Nils Olsen (Course lecturer), 1 Sep 2008, The Earth's Magnetic Field

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Architecture, Development and Implementation Plan of the Swarm SCARF

Nils Olsen (Representative), ESTEC Noordwijk/NL, 1 Oct 2008

Activity: Other research and communication activities › Other

Test data preparation and estimation of transfer functions from Swarm constellation data

Nils Olsen (Speaker), 1 Oct 2008, Test data preparation and estimation of transfer functions from Swarm constellation data

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The Geomagnetic Field

Nils Olsen (Course lecturer), Niels Bohr Institutet, Københavns Universitet, 1 Oct 2008 → 31 Oct 2008

Activity: Other research and communication activities › External teaching and subject coordination

Cosmoclimatology - the influence of Cosmic Rays on Climate

Henrik Svensmark (Course lecturer), Nansensenteret, Bergen, 14 Oct 2008

Activity: Other research and communication activities › External teaching and subject coordination

The Geomagnetic Field

Nils Olsen (Invited speaker), 1 Nov 2008 → 1 Dec 2008

Activity: Other research and communication activities › Other

Klima og Kosmos

Henrik Svensmark (Speaker), 10 Nov 2008

Activity: Lecture and oral contribution

A semi-autonomous optical observatory for sprite observations; COST-P18

Torsten Neubert (Speaker), 1 Jan 2007 → ...

Activity: Lecture and oral contribution

Co-ordinated ground observations in support of the ASIM and TARANIS missions; COST-P18

Torsten Neubert (Speaker), 1 Jan 2007

Activity: Lecture and oral contribution

Field-aligned and ionospheric currents during northward IMF: Multi-satellite observations and global modelling: Invited presentation at the IUGG XXIV General Assembly

Susanne Vennerstrøm (Speaker), 1 Jan 2007 → ...

Activity: Lecture and oral contribution

Magnetospheric contributions to the near Earth magnetic field: Invited presentation at the IUGG XXIV General Assembly

Susanne Vennerstrøm (Speaker), 1 Jan 2007 → ...

Activity: Lecture and oral contribution

Mars Surface Magnetic Observatory: Presentation at the first GEP consortium meeting

Susanne Vennerstrøm (Speaker), 1 Jan 2007 → ...

Activity: Lecture and oral contribution

Morphology and possible Causes of magnetic Disturbances near Mars: Invited presentation at the EGU General Assembly

Susanne Vennerstrøm (Speaker), 1 Jan 2007 → ...

Activity: Lecture and oral contribution

Multi-satellite estimation of the large-scale current system and convection pattern in the polar ionosphere – Comparison with groundbased measurements: Presentation at the Greenland Space Science Symposium

Susanne Vennerstrøm (Speaker), 1 Jan 2007 → ...

Activity: Lecture and oral contribution

Multi-satellite estimation of the large-scale current system and convection pattern in the polar ionosphere – Comparison with groundbased measurements: Presentation at the Greenland Space Science Symposium

Nils Olsen (Speaker), 1 Jan 2007 → ...

Activity: Lecture and oral contribution

North by Northwest: The planet's wandering magnetic poles help reveal history of Earth and humans

Nils Olsen (Interview person), 1 Jan 2007 → ...

Activity: Appearance in mass media › Participation in Interview for Printed Media

Rätselhafter Schutzschirm

Nils Olsen (Interview person), 1 Jan 2007 → ...

Activity: Appearance in mass media › Participation in Interview for Printed Media

Solen – at leve med en stjerne

Susanne Vennerstrøm (Speaker), 1 Jan 2007 → ...

Activity: Lecture and oral contribution

Solens skyggeside: Frederiksborg Amtsavis

Susanne Vennerstrøm (Speaker), 1 Jan 2007 → ...

Activity: Appearance in mass media › Participation in Interview for Printed Media

Spaceweather and climate

Henrik Svensmark (Interview person), EuroNews, 1 Jan 2007 → ...

Activity: Appearance in mass media › Participation in TV Programme

Spaceweather and climate

Susanne Vennerstrøm (Interview person), EuroNews, 1 Jan 2007 → ...

Activity: Appearance in mass media › Participation in TV Programme

Spaceweather and climate

Jens Olaf Pepke Pedersen (Interview person), EuroNews, 1 Jan 2007 → ...

Activity: Appearance in mass media › Participation in TV Programme

The ASIM payload for the International Space Station

Torsten Neubert (Speaker), 1 Jan 2007 → ...

Activity: Lecture and oral contribution

The ASIM payload for the International Space Station

Torsten Neubert (Speaker), 1 Jan 2007 → ...

Activity: Lecture and oral contribution

The magnetic effect of atmospheric escape at Mars: Presentation at the EGU General Assembly

Susanne Vennerstrøm (Speaker), 1 Jan 2007 → ...

Activity: Lecture and oral contribution

The sun, the solar wind and its interaction with the planets

Susanne Vennerstrøm (Course lecturer), KU, 1 Jan 2007 → ...

Activity: Other research and communication activities › External teaching and subject coordination

2D axisymmetrical particle modelling of the production of thermal runaway electrons by sprite streamers

Torsten Neubert (Speaker), 16 Apr 2007 → 20 Apr 2007

Activity: Lecture and oral contribution

2D axisymmetrical particle modelling of the production of thermal runaway electrons by sprite streamers

Olivier Chanrion (Speaker), 16 Apr 2007 → 20 Apr 2007

Activity: Lecture and oral contribution

3. Analysis of lightning associated with a sprite displaced from its parent positive cloud to ground lightning flash

Torsten Neubert (Speaker), 16 Apr 2007 → 20 Apr 2007

Activity: Lecture and oral contribution

Coupling of thunderstorms to the stratosphere, mesosphere, and ionosphere

Torsten Neubert (Speaker), 16 Apr 2007 → 20 Apr 2007

Activity: Lecture and oral contribution

"Early"-type VLF perturbations observed in relation to sprites and elves during the eurosprite campaigns

Torsten Neubert (Speaker), 16 Apr 2007 → 20 Apr 2007

Activity: Lecture and oral contribution

Sprite and lightning infrasound measurements during the 2005 Eurosprite campaign

Torsten Neubert (Speaker), 16 Apr 2007 → 20 Apr 2007

Activity: Lecture and oral contribution

Analysis of thunderstorm systems and lightning activity associated with sprites observed during the Eurosprite campaigns:

1- Statistical studies

Torsten Neubert (Speaker), 2 Jul 2007 → 13 Jul 2007

Activity: Lecture and oral contribution

Analysis of thunderstorm systems and lightning activity associated with sprites observed during the Eurosprite campaigns:

1- Statistical studies

Olivier Chanrion (Speaker), 2 Jul 2007 → 13 Jul 2007

Activity: Lecture and oral contribution

The chemical impact of transient luminous events in the middle atmosphere

Olivier Chanrion (Speaker), 2 Jul 2007 → 13 Jul 2007

Activity: Lecture and oral contribution

The chemical impact of transient luminous events in the middle atmosphere

Torsten Neubert (Speaker), 2 Jul 2007 → 13 Jul 2007

Activity: Lecture and oral contribution

Analysis of thunderstorm systems and lightning activity associated with sprites observed during the Eurosprite campaigns:

1- Statistical studies

Torsten Neubert (Speaker), 13 Aug 2007 → 17 Aug 2007

Activity: Lecture and oral contribution

Analysis of thunderstorm systems and lightning activity associated with sprites observed during the Eurosprite campaigns:

2- Case studies

Torsten Neubert (Speaker), 13 Aug 2007 → 17 Aug 2007

Activity: Lecture and oral contribution

Analysis of thunderstorm systems and lightning activity associated with sprites observed during the Eurosprite campaigns:

2- Case studies

Olivier Chanrion (Speaker), 13 Aug 2007 → 17 Aug 2007

Activity: Lecture and oral contribution

Field campaigns and space missions for studies of high-altitude discharges

Torsten Neubert (Speaker), 8 Oct 2007 → 12 Oct 2007

Activity: Lecture and oral contribution

On the CHAOS Magnetic Field Model and a Space-Domain Approach to Study Secular Variation using Satellite Data

Nils Olsen (Participant), 1 Jan 2006 → ..., On the CHAOS Magnetic Field Model and a Space-Domain Approach to Study Secular Variation using Satellite Data

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

On the CHAOS Magnetic Field Model and a Space-Domain Approach to Study Secular Variation using Satellite Data
Lars Tøffner-Clausen (Participant), 1 Jan 2006 → ..., On the CHAOS Magnetic Field Model and a Space-Domain Approach to Study Secular Variation using Satellite Data

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Probing Mantle Conductivity From Space and Ground

Nils Olsen (Participant), 1 Jan 2006 → ...

Activity: Lecture and oral contribution

Solen i udbrud

Susanne Vennerstrøm (Invited speaker), 1 Jan 2006 → ...

Activity: Other research and communication activities › External teaching and subject coordination

Study of an Improved Comprehensive Magnetic Field Inversion Analysis for Swarm

Nils Olsen (Participant), 1 Jan 2006 → ...

Activity: Lecture and oral contribution

Particle simulation of sprite streamer

Olivier Chanrion (Speaker), 8 Jan 2006 → 11 Jan 2006

Activity: Lecture and oral contribution

Particle simulation of sprite streamer

Torsten Neubert (Speaker), 8 Jan 2006 → 11 Jan 2006

Activity: Lecture and oral contribution

Study of an Improved Comprehensive Magnetic Field Inversion Analysis for Swarm

Nils Olsen (Speaker), 1 Mar 2006 → 31 Mar 2006

Activity: Lecture and oral contribution

How Damaging are Time Gaps in Vector Data Coverage to Global Field Models?

Nils Olsen (Participant), 1 Aug 2006, How Damaging are Time Gaps in Vector Data Coverage to Global Field Models?

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The 2005 Eurosprite Observation Campaign

Olivier Chanrion (Participant), 28 Aug 2006 → 1 Sep 2006, The 2005 Eurosprite Observation Campaign

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The 2005 Eurosprite Observation Campaign

Torsten Neubert (Participant), 28 Aug 2006 → 1 Sep 2006, The 2005 Eurosprite Observation Campaign

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Stjerne eksplosioner giver højere temperaturer på vores klode

Henrik Svensmark (Participant), Deadline, DR2, 4 Oct 2006

Activity: Appearance in mass media › Participation in TV Programme

Study of an Improved Comprehensive Magnetic Field Inversion Analysis for Swarm

Nils Olsen (Speaker), 1 Nov 2006 → 30 Nov 2006

Activity: Lecture and oral contribution

Klimaet styres fra rummet

Henrik Svensmark (Participant), Viden om. DR2, 21 Nov 2006

Activity: Appearance in mass media › Participation in TV Programme

A modular model of the Earth's magnetic field

Nils Olsen (Participant), 1 Jan 2005 → ...

Activity: Lecture and oral contribution

Discharges observed in the high-altitude atmosphere over Europe

Torsten Neubert (Participant), 1 Jan 2005 → ..., Discharges observed in the high-altitude atmosphere over Europe

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Erforschung des Erdmagnetfeldes mittels Satelliten - Ørsted

Nils Olsen (Participant), 1 Jan 2005 → ...

Activity: Lecture and oral contribution

Experimental investigation of ultrafine aerosol formation

Jens Olaf Pepke Pedersen (Participant), 1 Jan 2005 → ..., Experimental investigation of ultrafine aerosol formation

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Observed and simulated field-aligned currents during northward

Susanne Vennerstrøm (Participant), 1 Jan 2005 → ...

Activity: Lecture and oral contribution

Results from the EuroSprite2003 campaign

Torsten Neubert (Participant), 1 Jan 2005 → ...

Activity: Lecture and oral contribution

Results from the EuroSprite2003 campaign

Torsten Neubert (Participant), 1 Jan 2005 → ...

Activity: Lecture and oral contribution

The European Sprite 2003 campaign

Torsten Neubert (Participant), 1 Jan 2005 → ..., The European Sprite 2003 campaign

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Towards a Multi-Satellite Alignment: On The CHAOS Magnetic Field Modelling Effort

Nils Olsen (Participant), 1 Jan 2005 → ...

Activity: Lecture and oral contribution

Towards a Multi-Satellite Alignment: On The CHAOS Magnetic Field Modelling Effort

Lars Tøffner-Clausen (Participant), 1 Jan 2005 → ...

Activity: Lecture and oral contribution

Upper atmospheric lightning

Torsten Neubert (Participant), Bulgarian Institute of Meteorology and Hydrology, 1 Jan 2005 → ...

Activity: Other research and communication activities › External teaching and subject coordination

Saturns måne Titan og livets opståen på Jorden

Jens Olaf Pepke Pedersen (Speaker), 1 Feb 2005

Activity: Lecture and oral contribution

Storme i rummet

Susanne Vennerstrøm (Speaker), 22 Mar 2005

Activity: Lecture and oral contribution

Turen går til Titan

Jens Olaf Pepke Pedersen (Speaker), 1 May 2005

Activity: Lecture and oral contribution

Simulation of streamer propagation using a PIC-MCC code: Application to sprite discharges

Olivier Chanrion (Participant), 9 May 2005 → 13 May 2005, Simulation of streamer propagation using a PIC-MCC code: Application to sprite discharges

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Soludbrud og storme i rummet

Susanne Vennerstrøm (Speaker), 18 May 2005

Activity: Lecture and oral contribution

Overview of the ASIM mission

Torsten Neubert (Participant), 20 Jun 2005 → 24 Jun 2005

Activity: Lecture and oral contribution

Simulation of streamer initiation using a particle in cell code with Monte Carlo collisions: application to sprite ignition

Olivier Chanrion (Participant), 20 Jun 2005 → 24 Jun 2005, Simulation of streamer initiation using a particle in cell code with Monte Carlo collisions: application to sprite ignition

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The World Sprite-Watch Partnership

Torsten Neubert (Participant), 20 Jun 2005 → 24 Jun 2005

Activity: Lecture and oral contribution

Coupling of Atmospheric Layers – EU FP5 RTN Project: Training and Outreach Programme

Olivier Chanrion (Participant), 14 Nov 2005 → 15 Nov 2005, Coupling of Atmospheric Layers – EU FP5 RTN Project: Training and Outreach Programme

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Comparison of ionospheric dynamo currents and magnetic perturbations modeled by the TIEGCM with CM3e model results

Nils Olsen (Speaker), 1 Jan 2003 → ..., Comparison of ionospheric dynamo currents and magnetic perturbations modeled by the TIEGCM with CM3e model results

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Exploring the external geomagnetic field using space- and groundbased magnetometers

Susanne Vennerstrøm (Speaker), 1 Jan 2003 → ..., Exploring the external geomagnetic field using space- and groundbased magnetometers

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Exploring the external geomagnetic field using space- and groundbased magnetometers

Nils Olsen (Speaker), 1 Jan 2003 → ..., Exploring the external geomagnetic field using space- and groundbased magnetometers

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Hvad fortæller Ørsted satellitten om Jordens magnetfelt ?

Nils Olsen (Speaker), 1 Jan 2003 → ...

Activity: Lecture and oral contribution

Jordens magnetfelt

Nils Olsen (Speaker), 1 Jan 2003 → ...

Activity: Lecture and oral contribution

Realistic estimates of the variances of spherical harmonic geomagnetic field models derived from satellite data

Nils Olsen (Speaker), 1 Jan 2003 → ..., Realistic estimates of the variances of spherical harmonic geomagnetic field models derived from satellite data

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Secular variation and secular acceleration determined from Ørsted satellite data

Nils Olsen (Speaker), 1 Jan 2003 → ..., Secular variation and secular acceleration determined from Ørsted satellite data

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Solar wind interaction with Mars - IMF by asymmetries

Susanne Vennerstrøm (Participant), 1 Jan 2003 → ..., Solar wind interaction with Mars - IMF by asymmetries

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Solar wind interaction with Mars - IMF by asymmetries

Nils Olsen (Speaker), 1 Jan 2003 → ..., Solar wind interaction with Mars - IMF by asymmetries

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Swarm End-To-End Mission Performance Study, Presentation of Draft Task 2 Report

Nils Olsen (Participant), 1 Jan 2003 → ..., Swarm End-To-End Mission Performance Study, Presentation of Draft Task 2 Report

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Swarm End-To-End Mission Performance Study, Presentation of Final Task 2 Report

Nils Olsen (Participant), 1 Jan 2003 → ..., Swarm End-To-End Mission Performance Study, Presentation of Final Task 2 Report

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Swarm End-To-End Mission Performance Study, Presentation of Task 1 Report

Nils Olsen (Speaker), 1 Jan 2003 → ..., Swarm End-To-End Mission Performance Study, Presentation of Task 1 Report

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The present state of geomagnetic comprehensive models and their applications

Nils Olsen (Speaker), 1 Jan 2003 → ..., The present state of geomagnetic comprehensive models and their applications

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The swarm constellation: Mission concept and closed-loop system simulations

Nils Olsen (Speaker), 1 Jan 2003 → ...

Activity: Lecture and oral contribution

A magnetic field model derived from Ørsted, CHAMP and Ørsted 2/SAC-C observations

Nils Olsen (Speaker), 1 Jan 2002 → ..., A magnetic field model derived from Ørsted, CHAMP and Ørsted 2/SAC-C observations

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Die Pole verschieben sich: Die Veränderungen sind dramatischer als angenommen. Das Magnetfeld wird schwächer.

Nils Olsen (Interview person), 1 Jan 2002 → ...

Activity: Appearance in mass media › Participation in Interview for Printed Media

External, static internal and electromagnetically induced contributions in Mars Globas Surveyor magnetic observations

Nils Olsen (Speaker), 1 Jan 2002 → ..., External, static internal and electromagnetically induced contributions in Mars Globas Surveyor magnetic observations

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

External, static internal and electromagnetically induced contributions in Mars Globas Surveyor magnetic observations

Susanne Vennerstrøm (Speaker), 1 Jan 2002 → ..., External, static internal and electromagnetically induced contributions in Mars Globas Surveyor magnetic observations

Activity: [Participation in conference/workshop/course/seminar](#) › [Participation in workshop, seminar, course](#)

Highlights from AGU's 2nd virtual session

Susanne Vennerstrøm (Speaker), 1 Jan 2002 → ..., [Highlights from AGU's 2nd virtual session](#)

Activity: [Participation in conference/workshop/course/seminar](#) › [Participation in workshop, seminar, course](#)

Highlights from AGU's 2nd virtual session

Nils Olsen (Speaker), 1 Jan 2002 → ..., [Highlights from AGU's 2nd virtual session](#)

Activity: [Participation in conference/workshop/course/seminar](#) › [Participation in workshop, seminar, course](#)

Investigating ionospheric current systems with Ørsted, CHAMP and Ørsted-2/SAC-C magnetic field measurements

Nils Olsen (Speaker), 1 Jan 2002 → ..., [Investigating ionospheric current systems with Ørsted, CHAMP and Ørsted-2/SAC-C magnetic field measurements](#)

Activity: [Participation in conference/workshop/course/seminar](#) › [Participation in workshop, seminar, course](#)

Investigation of external current systems with low altitude, polar orbiting satellites (solicited)

Nils Olsen (Participant), 1 Jan 2002 → ..., [Investigation of external current systems with low altitude, polar orbiting satellites \(solicited\)](#)

Activity: [Participation in conference/workshop/course/seminar](#) › [Participation in workshop, seminar, course](#)

Mars NetLander/MAGNET

Susanne Vennerstrøm (Speaker), 1 Jan 2002 → ..., [Mars NetLander/MAGNET](#)

Activity: [Participation in conference/workshop/course/seminar](#) › [Participation in workshop, seminar, course](#)

Monitoring magnetospheric contributions using data from Ørsted, CHAMP and Ørsted-2/SAC-C

Nils Olsen (Speaker), 1 Jan 2002 → ..., [Monitoring magnetospheric contributions using data from Ørsted, CHAMP and Ørsted-2/SAC-C](#)

Activity: [Participation in conference/workshop/course/seminar](#) › [Participation in workshop, seminar, course](#)

Monitoring magnetospheric contributions using data from Ørsted, CHAMP and Ørsted-2/SAC-C

Susanne Vennerstrøm (Speaker), 1 Jan 2002 → ..., [Monitoring magnetospheric contributions using data from Ørsted, CHAMP and Ørsted-2/SAC-C](#)

Activity: [Participation in conference/workshop/course/seminar](#) › [Participation in workshop, seminar, course](#)

Monitoring magnetospheric sources with Ørsted, CHAMP and Ørsted-2/SAC-C

Nils Olsen (Speaker), 1 Jan 2002 → ..., [Monitoring magnetospheric sources with Ørsted, CHAMP and Ørsted-2/SAC-C](#)

Activity: [Participation in conference/workshop/course/seminar](#) › [Participation in workshop, seminar, course](#)

Monitoring magnetospheric sources with Ørsted, CHAMP and Ørsted-2/SAC-C

Susanne Vennerstrøm (Speaker), 1 Jan 2002 → ..., [Monitoring magnetospheric sources with Ørsted, CHAMP and Ørsted-2/SAC-C](#)

Activity: [Participation in conference/workshop/course/seminar](#) › [Participation in workshop, seminar, course](#)

Multi-satellite observations of field-aligned currents in the day-side cusp and polar cap

Susanne Vennerstrøm (Speaker), 1 Jan 2002 → ..., [Multi-satellite observations of field-aligned currents in the day-side cusp and polar cap](#)

Activity: [Participation in conference/workshop/course/seminar](#) › [Participation in workshop, seminar, course](#)

Multi-satellite observations of field-aligned currents in the day-side cusp and polar cap

Nils Olsen (Speaker), 1 Jan 2002 → ..., [Multi-satellite observations of field-aligned currents in the day-side cusp and polar cap](#)

Activity: [Participation in conference/workshop/course/seminar](#) › [Participation in workshop, seminar, course](#)

New results from the Ørsted and CHAMP satellites

Susanne Vennerstrøm (Speaker), 1 Jan 2002 → ..., [New results from the Ørsted and CHAMP satellites](#)

Activity: [Participation in conference/workshop/course/seminar](#) › [Participation in workshop, seminar, course](#)

New results from the Ørsted and CHAMP satellites

Nils Olsen (Speaker), 1 Jan 2002 → ..., New results from the Ørsted and CHAMP satellites

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Night-side current systems in the polar region during quiet geomagnetic conditions

Nils Olsen (Speaker), 1 Jan 2002 → ..., Night-side current systems in the polar region during quiet geomagnetic conditions

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Night-side current systems in the polar region during quiet geomagnetic conditions

Susanne Vennerstrøm (Speaker), 1 Jan 2002 → ..., Night-side current systems in the polar region during quiet geomagnetic conditions

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The magnetic field near Mars and its variation with the solar wind

Susanne Vennerstrøm (Speaker), 1 Jan 2002 → ..., The magnetic field near Mars and its variation with the solar wind

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The magnetic field near Mars and its variation with the solar wind

Nils Olsen (Speaker), 1 Jan 2002 → ..., The magnetic field near Mars and its variation with the solar wind

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The magnetid field near Mars and its variation with the solar wind parameters

Susanne Vennerstrøm (Speaker), 1 Jan 2002 → ..., The magnetid field near Mars and its variation with the solar wind parameters

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The magnetid field near Mars and its variation with the solar wind parameters

Nils Olsen (Speaker), 1 Jan 2002 → ..., The magnetid field near Mars and its variation with the solar wind parameters

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The utility of simultaneous multi-satellite data and the virtual session concept

Susanne Vennerstrøm (Speaker), 1 Jan 2002 → ..., The utility of simultaneous multi-satellite data and the virtual session concept

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The utility of simultaneous multi-satellite data and the virtual session concept

Nils Olsen (Speaker), 1 Jan 2002 → ..., The utility of simultaneous multi-satellite data and the virtual session concept

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

NetLander - Mission to Mars

Susanne Vennerstrøm (Speaker), 1 Jan 2001 → ...

Activity: Lecture and oral contribution

Ørsted and Ørsted-2/SAC-C: Mission status and data availability

Nils Olsen (Speaker), 1 Jan 2001 → ...

Activity: Lecture and oral contribution

Ørsted and Ørsted-2/SAC-C: Mission status and data availability

Torsten Neubert (Speaker), 1 Jan 2001 → ...

Activity: Lecture and oral contribution

Kampen om klimaet: TV documentary

Henrik Svensmark (Participant), DR1, 1 Feb 2001

Activity: Appearance in mass media › Participation in TV Programme

Solar wind interaction with Mars

Susanne Vennerstrøm (Participant), 1 Feb 2001, Solar wind interaction with Mars

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Exploration of planetary magnetic fields: Radio interview in "Principia"

Fritz Primdahl (Participant), DR P1, 24 Feb 2001

Activity: Appearance in mass media › Participation in Radio Programme

A field model derived from Ørsted and CHAMP data

Nils Olsen (Participant), 1 Apr 2001, A field model derived from Ørsted and CHAMP data

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The correlation between GCR's and cloud cover

Henrik Svensmark (Organizer), 18 Apr 2001 → 20 Apr 2001, The correlation between GCR's and cloud cover

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Why Mercury?

Susanne Vennerstrøm (Participant), 30 May 2001 → 31 May 2001, Why Mercury?

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Why Mercury?

Nils Olsen (Participant), 30 May 2001 → 31 May 2001, Why Mercury?

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Cosmic rays and climate

Henrik Svensmark (Speaker), 8 Sep 2001 → 13 Sep 2001

Activity: Lecture and oral contribution

Polar cap and cusp currents measured with Ørsted

Susanne Vennerstrøm (Participant), 1 Oct 2001, Polar cap and cusp currents measured with Ørsted

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Status of the data-calibration of the Ørsted-2/SAC-C projects

Nils Olsen (Participant), 1 Oct 2001, Status of the data-calibration of the Ørsted-2/SAC-C projects

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Solen under lup

Susanne Vennerstrøm (Invited speaker), 1 Jan 2000 → ...

Activity: Other research and communication activities › External teaching and subject coordination

Solvinden og dens vekselvirkning med planeterne i solsystemet

Susanne Vennerstrøm (Speaker), 1 Jan 2000 → ...

Activity: Lecture and oral contribution

Solvinden og rumstorme

Susanne Vennerstrøm (Participant), 1 Jan 2000 → ...

Activity: Lecture and oral contribution

The solar wind sources of storms

Susanne Vennerstrøm (Participant), University of Oulu, Finland, 1 Jan 2000 → ...

Activity: Other research and communication activities › External teaching and subject coordination

Neubert, T., P. Stauning, N. Olsen, F. Primdahl, J.L. Jørgensen, G. Hulot, S. Syndergaard and P. Høeg; "The Ørsted geomagnetic satellite: Mission status and first results". ST4, oral presentation at general assembly of the European Geophysical Society, Nice, France, 25-28 April 2000.

Torsten Neubert (Speaker), 25 Apr 2000 → 28 Apr 2000

Activity: Lecture and oral contribution

Neubert, T., P. Stauning, N. Olsen, F. Primdahl, J.L. Jørgensen, G. Hulot, S. Syndergaard and P. Høeg; "The Ørsted geomagnetic satellite: Mission status and first results". ST4, oral presentation at general assembly of the European Geophysical Society, Nice, France, 25-28 April 2000.

Nils Olsen (Speaker), 25 Apr 2000 → 28 Apr 2000

Activity: Lecture and oral contribution

New ground-based proxies for the IMF By- and Bz-components

Susanne Vennerstrøm (Speaker), 25 Apr 2000 → 28 Apr 2000, New ground-based proxies for the IMF By- and Bz-components

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Possible effects of cosmic ray ionisation in the atmosphere

Henrik Svensmark (Participant), 30 May 2000 → 3 Jun 2000, Possible effects of cosmic ray ionisation in the atmosphere

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Indirect mechanisms of solar-terrestrial relations

Henrik Svensmark (Participant), 25 Sep 2000 → 30 Sep 2000, Indirect mechanisms of solar-terrestrial relations

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Ørsted satellitten og Jordens magnetfelt

Nils Olsen (Participant), 30 Sep 2000

Activity: Lecture and oral contribution

Erste Ergebnisse des Ørsted Satelliten

Nils Olsen (Participant), 1 Jan 1999 → ..., Erste Ergebnisse des Ørsted Satelliten

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Erste Ergebnisse des Ørsted Satelliten

Nils Olsen (Participant), 1 Jan 1999 → ..., Erste Ergebnisse des Ørsted Satelliten

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Ørsted internal field science and initial field models

Nils Olsen (Speaker), 1 Jan 1999 → ..., Ørsted internal field science and initial field models

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

Recent progress in exploring the near-Earth magnetic field with low-altitude satellites: IUGG meeting

Nils Olsen (Speaker), 1 Jan 1999 → ...

Activity: Lecture and oral contribution

In-flight calibration methods used for the Ørsted mission

Nils Olsen (Participant), 9 Mar 1999, In-flight calibration methods used for the Ørsted mission

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course

The Sun

Susanne Vennerstrøm (Invited speaker), Public University of Copenhagen, 1 Jan 1998 → ...

Activity: Other research and communication activities › External teaching and subject coordination

Kvant. Tidsskrift for Fysik og Astronomi

Jens Olaf Pepke Pedersen (Editor), 1 Apr 1998 → ...

Activity: Ongoing editorial work › Editor of Research journal

Fysik i perspektiv

Henrik Svensmark (Course lecturer), 2 Nov 1998 → 4 Nov 1998, Fysik i perspektiv

Activity: Participation in conference/workshop/course/seminar › Participation in workshop, seminar, course